

Prof. Dr. Alfred Toth

**Grundlegung einer  
qualitativen  
Kommunikationstheorie.  
Bd. 2**



## Vorwort

Bekanntlich bildet die Kommunikationstheorie das Kerngebiet der Kybernetik der 60er Jahre. Das 1963 erschienene Buch von Shannon und Weaver ging von einer triadischen Kommunikationsrelation, bestehend aus Expedient (Sender bzw. Quelle), Kanal und Rezipient (Empfänger bzw. Senke) aus. Meyer-Eppler baute dann seine bekannte „Informationstheorie“ in der 2. Aufl. von 1969 auf dem Signalbegriff auf und bestimmte den Sender als logische Objekt- und den Empfänger als logische Subjektposition. Der Grund dafür ist viel trivialer als häufig angenommen wird: Es gibt eben emittierende (z.B. radioaktive), aber keine rezipierenden Objekte. Da es in der 2-wertigen aristotelischen Logik nur zwei Plätze, einen für das Objekt und einen für das Subjekt, gibt, werden einem belebten Subjekt als Sender daher beide logischen Positionen zugeschrieben. (Diese Annahme gipfelte später in Chomskys Sprachtheorie in der Konzeption eines „idealen Sprecher-Hörers“.) Aufgabe des Kanals ist es, die vom Objekt expedierten Signale zum Subjekt zu transportieren. Bense hatte bereits 1971 das Meyer-Epplersche signalitive Kommunikationsmodell übernommen und die logischen Positionen sowie den Kanal durch semiotische Kategorien ersetzt, indem er dem Sender den Objektbezug, dem Kanal den Mittelbezug und dem Empfänger den Interpretantenbezug zuwies. Auf der Basis der benseschen Semiotik ist es damit unmöglich, daß der das Subjekt semiotisch kodierende Interpretantenbezug als Sender fungiert.

Im vorliegenden und den folgenden Bänden konstruiere ich eine neue Kommunikationstheorie auf der Basis von vier statt drei Werten, so daß kein illegitimer logischer Kollaps von Objekt- und Subjektposition auftreten und der Interpretant als Sender fungieren kann. Dabei wird allerdings die triadische Struktur der informationstheoretischen Kommunikationstheorie beibehalten. Dies ergibt kombinatorisch jeweils 24 Basisschemata. Ferner wird die Permutation der Werte zugelassen. Dies führt zu einer sehr großen Anzahl von Kommunikationsrelationen, die selbst triadisch, d.h. vermittelt, präsentiert werden. Im Eingangskapitel reproduziere ich einen kürzlich veröffentlichten Aufsatz von mir, in dem die Isomorphie von Zahl, Zeichen und Objekt nachgewiesen wird. Die hier vorgelegte Kommunikationstheorie ist damit qualitativ und universell anwendbar. Ähnlich, wie ich es bereits in meiner „Theory of the Night“ (2016) mit Paaren von Kreationsschemata getan hatte, beschränke ich mich auch bei den Tripeln von Kommunikationsschemata

nicht auf die rein quantitative Darstellung durch die natürlichen Zahlen, sondern präsentiere die Ergebnisse in den selben 8 Zahlenarten, die ich bereits in meinem erwähnten Buche sowie zwei an es anschließenden Aufsätzen getan hatte. Folgende Übersicht orientiert über die in den einzelnen Bänden verwandten arithmetischen „Dialekte“:

- Bd. 1      Peano-Zahlen
- Bd. 2      Surreale Zahlen (Conway-Zahlen)
- Bd. 3      Eisenstein-Zahlen
- Bd. 4      Quadralektische Zahlen
- Bd. 5      Systemische Zahlen
- Bd. 6      Regionale Zahlen
- Bd. 7      Relationale Zahlen
- Bd. 8      Qualitative Zahlen

Dieses aus 8 Teilbänden bestehende Werk sei denjenigen unter meinen Lehrern und Fachkollegen gewidmet, denen mein eigenes Werk am meisten verdankt (in alphabetischer Ordnung): Prof. Dr. Max Bense (1910-1990), Prof. Dr. Gotthard Günther (1900-1984), Prof. Dr. Rudolf Kaehr (1942-2016) und meinem Freund Dr. Engelbert Kronthaler.

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## Zahlen, Zeichen und Objekte

Bekanntlich hatte Bense bereits (1975, S. 168 ff.) gezeigt, daß das Zeichen sich mittels der Peano-Axiome einführen läßt, wobei die Initialzahl der Folge, d.h. entweder die 0 oder 1, als „Präsentant“ und der Nachfolger einer Peanozahl  $n$  ( $n > 0$  bzw.  $n > 1$ ) als „Repräsentant“ fungiert. Später (1986, S. 192 ff.) hatte Bense dann sogar aufgezeigt, daß sich die von Peirce bereits 1881 aufgestellten „Axioms of Number“ als eine Voläuferversion der Peano-Axiome interpretieren lassen und daß die peircesche Zeichenrelation sich ebenfalls mit Hilfe der Axioms of Number einführen läßt. Im Jahre 1981 führte Bense die Fundamentalkategorien in numerischer Notation als „Primzeichen“ bzw. „Zeichenzahlen“ ein (Bense 1981, S. 17 ff.)

Z (1., 2., 3.).

Wir haben damit

Zahl  $\cong$  Zeichen

1  $\cong$  1.

2  $\cong$  2.

3  $\cong$  3.

Damit bleibt die Frage nach dem Objekt, denn wir hatten ja in einer sehr langen Reihe von Arbeiten seit 2008 gezeigt, daß das Zeichen dem Objekt ebenfalls isomorph ist. Hier stellen sich vom Standpunkt der peirceschen Semiotik zwei Probleme:

1. Obwohl Bense das Zeichen ausdrücklich als „Metaobjekt“ eingeführt hatte (Bense 1967, S. 9), was also ein Objekt außerhalb des „Universums der Zeichen“ voraussetzt, spielt das Objekt in fast der gesamten späteren Semiotik keine Rolle mehr. Vielmehr ist die bensesche Semiotik als Pansemiotik im Sinne der Gültigkeit der modelltheoretischen Sätze der Extensivität, Monotonie und Abgeschlossenheit (vgl. Schwabhäuser 1971, S. 40) konzipiert, d.h. das Objekt taucht zwar ein „bezeichnetes Objekt“ bzw. als „Präsentamen“ auf, aber nicht als Objekt außerhalb des „semiotischen Raumes“. Eine Ausnahme bildet lediglich eine Konzeption, die Bense 1975 vorgelegt, später aber nicht mehr aufgenommen hatte: Dort wird das Objekt als 0-relationales Zeichen definiert und dem „semiotischen Raum“ ein „ontischer Raum“ gegenübergestellt. Allerdings

ist dieses „vorthetische“ oder „disponible“ Objekt damit aber auch eher ein ontologisches als ein ontisches Objekt, denn es ja bereits zur Zeichensetzung intendiert, also zu der sich bereits aus Bense (1967, S. 9) ableitbaren Funktion der „Metaobjektivation“

$\mu: O^\circ \rightarrow Z,$

worin allerdings also

$O^\circ \neq \Omega$

gilt, d.h.  $\mu$  hat nichts mit der Dichotomie

$D = (\Omega, Z)$

zu tun.

Der Objektbegriff taucht explizit lediglich in der nur auf 1 Seite von Bense knapp skizzierten „Raumsemiotik“ auf (vgl. Bense/Walther 1973, S. 80). Dort wird das Objekt zwar in iconisch fungierende Systeme, indexikalisch fungierende Abbildungen und symbolisch fungierende Repertoires subkategorisiert, aber diese drei Arten von Objekten werden sogleich als Subzeichen des semiotischen Objektbezuges eingeführt. Einen Mittel- und einen Interpretantenbezug des „Raumzeichens“ gibt es nicht. Allerdings scheinen uns die drei von Bense unterschiedenen Objekte als „Fundamentalkategorien“ von  $\Omega$  brauchbar, d.h. JEDES REALE, D.H. ONTISCHE OBJEKT IST ENTWEDER EIN SYSTEM, EINE ABBILDUNG ODER EIN REPERTOIRE. Da die „generative“ (Bense) Relation innerhalb der Trichotomien jeder Triade in Richtung maximaler Abstraktion verläuft (im Mittelbezug vom Quali- über das Sin- zum Legizeichen, im Objektbezug vom Icon über den Index zum Symbol, und im Interpretantenbezug von Rhema über das Dicent zum Argument, wollen wir als Symbole für die Fundamentalkategorien des Objektes

Sys :=  $\square$

Abb :=  $\rightarrow$

Rep =  $—$

vereinbaren. Wir erhalten dann folgendes Isomorphieschema von Zahl, Zeichen und Objekt

Zahl		Zeichen		Objekt
1	$\cong$	1.	$\cong$	$\square$
2	$\cong$	2.	$\cong$	$\rightarrow$
3	$\cong$	3.	$\cong$	$—$

und damit natürlich

$$\mathbb{Z}_a \cong \mathbb{Z} \cong \Omega.$$

Vermutlich ist es sogar so, DAß DIESE DREI ENTITÄTEN, DIE ZAHL, DAS ZEICHEN UND DAS OBJEKT, DIE TIEFSTEN FUNDAMENTALEN BAUSTEINE EINES „UNIVERSUMS DES GEISTES“ DARSTELLEN.

## Kommunikationstheorie

Wir gehen aus von der Menge von 4 Elementen

$$P = (\{|\}, \{0|\}, \{0, 1|\}, \{0, 1, 2|\}),$$

die auf 3 Plätze distribuiert werden können. Dann gibt es genau 24 mögliche Kombinationen.

- 1         $(\{|\} \rightarrow \{0|\} \rightarrow \{0, 1|\})$
- 2         $(\{|\} \rightarrow \{0|\} \rightarrow \{0, 1, 2|\})$
- 3         $(\{|\} \rightarrow \{0, 1|\} \rightarrow \{0|\})$
- 4         $(\{|\} \rightarrow \{0, 1|\} \rightarrow \{0, 1, 2|\})$
- 5         $(\{|\} \rightarrow \{0, 1, 2|\} \rightarrow \{0|\})$
- 6         $(\{|\} \rightarrow \{0, 1, 2|\} \rightarrow \{0, 1|\})$
  
- 7         $(\{0|\} \rightarrow \{|\} \rightarrow \{0, 1|\})$
- 8         $(\{0|\} \rightarrow \{|\} \rightarrow \{0, 1, 2|\})$
- 9         $(\{0|\} \rightarrow \{0, 1|\} \rightarrow \{|\})$
- 10        $(\{0|\} \rightarrow \{0, 1|\} \rightarrow \{0, 1, 2|\})$
- 11        $(\{0|\} \rightarrow \{0, 1, 2|\} \rightarrow \{|\})$
- 12        $(\{0|\} \rightarrow \{0, 1, 2|\} \rightarrow \{0, 1|\})$
  
- 13        $(\{0, 1|\} \rightarrow \{|\} \rightarrow \{0|\})$
- 14        $(\{0, 1|\} \rightarrow \{|\} \rightarrow \{0, 1, 2|\})$
- 15        $(\{0, 1|\} \rightarrow \{0|\} \rightarrow \{|\})$
- 16        $(\{0, 1|\} \rightarrow \{0|\} \rightarrow \{0, 1, 2|\})$
- 17        $(\{0, 1|\} \rightarrow \{0, 1, 2|\} \rightarrow \{|\})$
- 18        $(\{0, 1|\} \rightarrow \{0, 1, 2|\} \rightarrow \{0|\})$



- 19  $(\{0, 1, 2 \mid\} \rightarrow \{ \mid\} \rightarrow \{0 \mid\})$
- 20  $(\{0, 1, 2 \mid\} \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\})$
- 21  $(\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{ \mid\})$
- 22  $(\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$
- 23  $(\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{ \mid\})$
- 24  $(\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$

Nach Kanälen geordnet:

- 7  $(\{0 \mid\} \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\})$
- 8  $(\{0 \mid\} \rightarrow \{ \mid\} \rightarrow \{0, 1, 2 \mid\})$
- 13  $(\{0, 1 \mid\} \rightarrow \{ \mid\} \rightarrow \{0 \mid\})$
- 14  $(\{0, 1 \mid\} \rightarrow \{ \mid\} \rightarrow \{0, 1, 2 \mid\})$
- 19  $(\{0, 1, 2 \mid\} \rightarrow \{ \mid\} \rightarrow \{0 \mid\})$
- 20  $(\{0, 1, 2 \mid\} \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\})$
  
- 1  $(\{ \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$
- 2  $(\{ \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$
- 15  $(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{ \mid\})$
- 16  $(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$
- 21  $(\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{ \mid\})$
- 22  $(\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$
  
- 3  $(\{ \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$
- 4  $(\{ \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\})$
- 9  $(\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{ \mid\})$
- 10  $(\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\})$

23  $(\{0, 1, 2 | \} \rightarrow \{0, 1 | \} \rightarrow \{ | \})$   
 24  $(\{0, 1, 2 | \} \rightarrow \{0, 1 | \} \rightarrow \{0 | \})$

5  $(\{ | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0 | \})$   
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 18  $(\{0, 1 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0 | \})$

## 1. Qualitative Kanäle

1.1. Chreode =  $(\{0 | \} \rightarrow \{ | \} \rightarrow \{0, 1 | \})$   
 $(\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \}) \rightarrow (\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \})$   
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$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &\rightarrow (\{\mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

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$$\begin{aligned} (\{0\} \rightarrow \{\} \rightarrow \{0, 1\}) &\rightarrow (\{0, 1\} \rightarrow \{0, 1, 2\} \rightarrow \{\}) \\ &(\{0\} \rightarrow \{\} \rightarrow \{0, 1\}) \end{aligned}$$

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$$(\{0 | \} \rightarrow \{ | \} \rightarrow \{0, 1 | \})$$

$$(\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) \rightarrow (\{0, 1, 2 | \} \rightarrow \{0 | \} \rightarrow \{ | \})$$

$$(\{0 | \} \rightarrow \{ | \} \rightarrow \{0, 1 | \})$$

$$(\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) \rightarrow (\{0, 1, 2 | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \})$$

$$(\{0 | \} \rightarrow \{ | \} \rightarrow \{0, 1 | \})$$

$$(\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) \rightarrow (\{0, 1, 2 | \} \rightarrow \{0, 1 | \} \rightarrow \{ | \})$$

$$(\{0 | \} \rightarrow \{ | \} \rightarrow \{0, 1 | \})$$

$$(\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) \rightarrow (\{0, 1, 2 | \} \rightarrow \{0, 1 | \} \rightarrow \{0 | \})$$

$$(\{0 | \} \rightarrow \{ | \} \rightarrow \{0, 1 | \})$$

$$(\{0, 1 | \} \rightarrow \{ | \} \rightarrow \{0 | \}) \rightarrow (\{0, 1 | \} \rightarrow \{ | \} \rightarrow \{0, 1, 2 | \})$$

$$(\{0 | \} \rightarrow \{ | \} \rightarrow \{0, 1 | \})$$

$$(\{0, 1 | \} \rightarrow \{ | \} \rightarrow \{0 | \}) \rightarrow (\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{ | \})$$

$$(\{0 | \} \rightarrow \{ | \} \rightarrow \{0, 1 | \})$$

$$\begin{array}{l} (\{0, 1 \mid\}) \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ (\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1 \mid\}) \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\ (\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1 \mid\}) \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \\ (\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1 \mid\}) \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\ (\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1 \mid\}) \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ (\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1 \mid\}) \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ (\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1 \mid\}) \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1 \mid\}) \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ (\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{ \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow \{0 \mid\}) \\ (\{0 \mid\}) \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$


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$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{ \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow \{ \mid\}) \\ (\{0 \mid\}) \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{ \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\}) \rightarrow \{0 \mid\}) \rightarrow \{0, 1, 2 \mid\}) \\ (\{0 \mid\}) \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{ \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\}) \rightarrow \{0, 1, 2 \mid\} \rightarrow \{ \mid\}) \\ (\{0 \mid\}) \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{ \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\}) \rightarrow \{0, 1, 2 \mid\}) \rightarrow \{0 \mid\}) \\ (\{0 \mid\}) \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{ \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\}) \rightarrow \{ \mid\} \rightarrow \{0 \mid\}) \\ (\{0 \mid\}) \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{ \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\}) \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{0 \mid\}) \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{ \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\}) \rightarrow \{0 \mid\} \rightarrow \{ \mid\}) \\ (\{0 \mid\}) \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

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$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow \{0 \mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\}) \rightarrow \{0, 1, 2 \mid\}) \rightarrow \{\mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\}) \rightarrow \{0, 1, 2 \mid\}) \rightarrow \{0 \mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow \{0 \mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow \{0, 1 \mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$



$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow ((\{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow \{\mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow ((\{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow \{0, 1 \mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow ((\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow \{\mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow ((\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow \{0 \mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow ((\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow \{0 \mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow ((\{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow \{0 \mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow ((\{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow \{0, 1 \mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow ((\{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow \{\mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow ((\{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow \{0, 1 \mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow ((\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow \{\mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow ((\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow \{0 \mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow ((\{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow \{0 \mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow ((\{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow \{0, 1 \mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow ((\{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow \{\mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow ((\{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow \{0, 1 \mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow ((\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow \{\mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{array}{l}
 (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\
 (\{0 \mid\} \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\})
 \end{array}$$


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$$\begin{array}{l}
 (\{0, 1, 2 \mid\} \rightarrow \{ \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\}) \\
 (\{0 \mid\} \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\})
 \end{array}$$

$$\begin{array}{l}
 (\{0, 1, 2 \mid\} \rightarrow \{ \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{ \mid\}) \\
 (\{0 \mid\} \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\})
 \end{array}$$

$$\begin{array}{l}
 (\{0, 1, 2 \mid\} \rightarrow \{ \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\
 (\{0 \mid\} \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\})
 \end{array}$$

$$\begin{array}{l}
 (\{0, 1, 2 \mid\} \rightarrow \{ \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{ \mid\}) \\
 (\{0 \mid\} \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\})
 \end{array}$$

$$\begin{array}{l}
 (\{0, 1, 2 \mid\} \rightarrow \{ \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\
 (\{0 \mid\} \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\})
 \end{array}$$


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$$\begin{array}{l}
 (\{0, 1, 2 \mid\} \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{ \mid\}) \\
 (\{0 \mid\} \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\})
 \end{array}$$

$$\begin{array}{l}
 (\{0, 1, 2 \mid\} \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\
 (\{0 \mid\} \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\})
 \end{array}$$



1.2. Chreode = ( $\{0 \mid\}$  →  $\{\mid\}$  →  $\{0, 1, 2 \mid\}$ )

( $\{\mid\}$  →  $\{0 \mid\}$  →  $\{0, 1 \mid\}$ ) → ( $\{\mid\}$  →  $\{0 \mid\}$  →  $\{0, 1, 2 \mid\}$ )  
( $\{0 \mid\}$  →  $\{\mid\}$  →  $\{0, 1, 2 \mid\}$ )

( $\{\mid\}$  →  $\{0 \mid\}$  →  $\{0, 1 \mid\}$ ) → ( $\{\mid\}$  →  $\{0, 1 \mid\}$  →  $\{0 \mid\}$ )  
( $\{0 \mid\}$  →  $\{\mid\}$  →  $\{0, 1, 2 \mid\}$ )

( $\{\mid\}$  →  $\{0 \mid\}$  →  $\{0, 1 \mid\}$ ) → ( $\{\mid\}$  →  $\{0, 1 \mid\}$  →  $\{0, 1, 2 \mid\}$ )  
( $\{0 \mid\}$  →  $\{\mid\}$  →  $\{0, 1, 2 \mid\}$ )

( $\{\mid\}$  →  $\{0 \mid\}$  →  $\{0, 1 \mid\}$ ) → ( $\{\mid\}$  →  $\{0, 1, 2 \mid\}$  →  $\{0 \mid\}$ )  
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( $\{\mid\}$  →  $\{0 \mid\}$  →  $\{0, 1 \mid\}$ ) → ( $\{\mid\}$  →  $\{0, 1, 2 \mid\}$  →  $\{0, 1 \mid\}$ )  
( $\{0 \mid\}$  →  $\{\mid\}$  →  $\{0, 1, 2 \mid\}$ )

( $\{\mid\}$  →  $\{0 \mid\}$  →  $\{0, 1 \mid\}$ ) → ( $\{0 \mid\}$  →  $\{\mid\}$  →  $\{0, 1 \mid\}$ )  
( $\{0 \mid\}$  →  $\{\mid\}$  →  $\{0, 1, 2 \mid\}$ )

( $\{\mid\}$  →  $\{0 \mid\}$  →  $\{0, 1 \mid\}$ ) → ( $\{0 \mid\}$  →  $\{\mid\}$  →  $\{0, 1, 2 \mid\}$ )  
( $\{0 \mid\}$  →  $\{\mid\}$  →  $\{0, 1, 2 \mid\}$ )

( $\{\mid\}$  →  $\{0 \mid\}$  →  $\{0, 1 \mid\}$ ) → ( $\{0 \mid\}$  →  $\{0, 1 \mid\}$  →  $\{\mid\}$ )  
( $\{0 \mid\}$  →  $\{\mid\}$  →  $\{0, 1, 2 \mid\}$ )

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &\rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &\rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

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$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &\rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &\rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

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$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$$

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$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$$

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$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\})$$

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$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$$

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$$\begin{aligned} (\{0\} \rightarrow \{\} \rightarrow \{0, 1\}) &\rightarrow (\{0, 1, 2\} \rightarrow \{0\} \rightarrow \{\}) \\ &(\{0\} \rightarrow \{\} \rightarrow \{0, 1, 2\}) \end{aligned}$$

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$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\ &(\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$



$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

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$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ &(\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$







$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ (\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

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$$\begin{aligned} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ (\{0 \mid\}) \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

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1.3. Chreode = ( $\{0, 1 | \} \rightarrow \{ | \} \rightarrow \{0 | \}$ )

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$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \end{aligned}$$

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$$(\{0 | \} \rightarrow \{0, 1 | \} \rightarrow \{0, 1, 2 | \}) \rightarrow (\{0, 1 | \} \rightarrow \{ | \} \rightarrow \{0 | \})$$

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$$(\{0 | \} \rightarrow \{0, 1 | \} \rightarrow \{0, 1, 2 | \}) \rightarrow (\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{ | \})$$

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$$\begin{aligned} (\{0\} \rightarrow \{0, 1, 2\} \rightarrow \{\}) \rightarrow (\{0, 1, 2\} \rightarrow \{\} \rightarrow \{0\}) \\ (\{0, 1\} \rightarrow \{\} \rightarrow \{0\}) \end{aligned}$$

$$\begin{aligned} (\{0\} \rightarrow \{0, 1, 2\} \rightarrow \{\}) \rightarrow (\{0, 1, 2\} \rightarrow \{\} \rightarrow \{0, 1\}) \\ (\{0, 1\} \rightarrow \{\} \rightarrow \{0\}) \end{aligned}$$

$$\begin{aligned} (\{0\} \rightarrow \{0, 1, 2\} \rightarrow \{\}) \rightarrow (\{0, 1, 2\} \rightarrow \{0\} \rightarrow \{\}) \\ (\{0, 1\} \rightarrow \{\} \rightarrow \{0\}) \end{aligned}$$

$$\begin{aligned} (\{0\} \rightarrow \{0, 1, 2\} \rightarrow \{\}) \rightarrow (\{0, 1, 2\} \rightarrow \{0\} \rightarrow \{0, 1\}) \\ (\{0, 1\} \rightarrow \{\} \rightarrow \{0\}) \end{aligned}$$

$$\begin{aligned} (\{0\} \rightarrow \{0, 1, 2\} \rightarrow \{\}) \rightarrow (\{0, 1, 2\} \rightarrow \{0, 1\} \rightarrow \{\}) \\ (\{0, 1\} \rightarrow \{\} \rightarrow \{0\}) \end{aligned}$$

$$\begin{aligned} (\{0\} \rightarrow \{0, 1, 2\} \rightarrow \{\}) \rightarrow (\{0, 1, 2\} \rightarrow \{0, 1\} \rightarrow \{0\}) \\ (\{0, 1\} \rightarrow \{\} \rightarrow \{0\}) \end{aligned}$$

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$$\begin{aligned} (\{0\} \rightarrow \{0, 1, 2\} \rightarrow \{0, 1\}) \rightarrow (\{0, 1\} \rightarrow \{\} \rightarrow \{0\}) \\ (\{0, 1\} \rightarrow \{\} \rightarrow \{0\}) \end{aligned}$$

$$\begin{aligned} (\{0\} \rightarrow \{0, 1, 2\} \rightarrow \{0, 1\}) \rightarrow (\{0, 1\} \rightarrow \{\} \rightarrow \{0, 1, 2\}) \\ (\{0, 1\} \rightarrow \{\} \rightarrow \{0\}) \end{aligned}$$





$$\begin{aligned}
 (\{0 \mid\}) \rightarrow \{0, 1, 2 \mid\} &\rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\
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 \end{aligned}$$

$$\begin{aligned}
 (\{0 \mid\}) \rightarrow \{0, 1, 2 \mid\} &\rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\
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$$\begin{aligned}
 (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) &\rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \\
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 (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) &\rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\
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 (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) &\rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\
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$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \end{aligned}$$

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$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \end{aligned}$$

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$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \end{aligned}$$

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$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \end{aligned}$$

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$$\begin{aligned} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \end{aligned}$$

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$$\begin{array}{ccccccc}
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1.4. Chreode = ( $\{0, 1 | \} \rightarrow \{ | \} \rightarrow \{0, 1, 2 | \}$ )

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$$(\{0, 1\} \rightarrow \{\} \rightarrow \{0, 1, 2\})$$

$$(\{0\} \rightarrow \{\} \rightarrow \{0, 1, 2\}) \rightarrow (\{0, 1, 2\} \rightarrow \{0\} \rightarrow \{0, 1\})$$

$$(\{0, 1\} \rightarrow \{\} \rightarrow \{0, 1, 2\})$$

$$(\{0\} \rightarrow \{\} \rightarrow \{0, 1, 2\}) \rightarrow (\{0, 1, 2\} \rightarrow \{0, 1\} \rightarrow \{\})$$

$$(\{0, 1\} \rightarrow \{\} \rightarrow \{0, 1, 2\})$$

$$(\{0\} \rightarrow \{\} \rightarrow \{0, 1, 2\}) \rightarrow (\{0, 1, 2\} \rightarrow \{0, 1\} \rightarrow \{0\})$$

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$$(\{0\} \rightarrow \{0, 1\} \rightarrow \{\}) \rightarrow (\{0\} \rightarrow \{0, 1, 2\} \rightarrow \{0, 1\})$$

$$(\{0, 1\} \rightarrow \{\} \rightarrow \{0, 1, 2\})$$

$$(\{0\} \rightarrow \{0, 1\} \rightarrow \{\}) \rightarrow (\{0, 1\} \rightarrow \{\} \rightarrow \{0\})$$

$$(\{0, 1\} \rightarrow \{\} \rightarrow \{0, 1, 2\})$$



$$\begin{aligned}
 (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) &\rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\
 &(\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\})
 \end{aligned}$$

$$\begin{aligned}
 (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) &\rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\
 &(\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\})
 \end{aligned}$$

$$\begin{aligned}
 (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) &\rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\
 &(\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\})
 \end{aligned}$$

$$\begin{aligned}
 (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) &\rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\
 &(\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\})
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$$\begin{aligned}
 (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) &\rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) \\
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 (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) &\rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\
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$$\begin{aligned}
 (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) &\rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \\
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 (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) &\rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\
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$$(\{0\} \rightarrow \{0, 1, 2\} \rightarrow \{\}) \rightarrow (\{0, 1, 2\} \rightarrow \{\} \rightarrow \{0\})$$

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$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$















$$\begin{array}{l}
 (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\
 (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\})
 \end{array}$$


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$$\begin{array}{l}
 (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\
 (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\})
 \end{array}$$

$$\begin{array}{l}
 (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\
 (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\})
 \end{array}$$


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$$\begin{array}{l}
 (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\
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 \end{array}$$

$$\begin{aligned}
& 1.5. \text{ Chreode} = (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\
& (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\
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& (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\
& \quad (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\
& (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\
& \quad (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\
& (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \\
& \quad (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\
& (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) \\
& \quad (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\
& (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\
& \quad (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\
& (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \\
& \quad (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\
& (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\
& \quad (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\})
\end{aligned}$$

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$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ &(\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \end{aligned}$$

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 (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) &\rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\
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& 1.6. \text{ Chreode} = (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\
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& \quad (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\
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& \quad (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\
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& \quad (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\
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$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &\rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ &(\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

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&({0, 1 |}) \rightarrow \{| \} \rightarrow \{0 | \}) \rightarrow ((0, 1 |) \rightarrow \{| \}) \rightarrow \{0, 1, 2 | \}) \\
&\qquad\qquad\qquad (\{0, 1, 2 | \} \rightarrow \{| \} \rightarrow \{0, 1 | \})
\end{aligned}$$

$$\begin{aligned}
&({0, 1 |}) \rightarrow \{| \} \rightarrow \{0 | \}) \rightarrow ((0, 1 |) \rightarrow \{0 | \}) \rightarrow \{| \}) \\
&\qquad\qquad\qquad (\{0, 1, 2 | \} \rightarrow \{| \} \rightarrow \{0, 1 | \})
\end{aligned}$$

$$\begin{aligned}
&({0, 1 |}) \rightarrow \{| \} \rightarrow \{0 | \}) \rightarrow ((0, 1 |) \rightarrow \{0 | \}) \rightarrow \{0, 1, 2 | \}) \\
&\qquad\qquad\qquad (\{0, 1, 2 | \} \rightarrow \{| \} \rightarrow \{0, 1 | \})
\end{aligned}$$

$$\begin{aligned}
&({0, 1 |}) \rightarrow \{| \} \rightarrow \{0 | \}) \rightarrow ((0, 1 |) \rightarrow \{0, 1, 2 | \}) \rightarrow \{| \}) \\
&\qquad\qquad\qquad (\{0, 1, 2 | \} \rightarrow \{| \} \rightarrow \{0, 1 | \})
\end{aligned}$$

$$\begin{aligned}
&({0, 1 |}) \rightarrow \{| \} \rightarrow \{0 | \}) \rightarrow ((0, 1 |) \rightarrow \{0, 1, 2 | \}) \rightarrow \{0 | \}) \\
&\qquad\qquad\qquad (\{0, 1, 2 | \} \rightarrow \{| \} \rightarrow \{0, 1 | \})
\end{aligned}$$

$$\begin{aligned}
&({0, 1 |}) \rightarrow \{| \} \rightarrow \{0 | \}) \rightarrow ((0, 1, 2 |) \rightarrow \{| \}) \rightarrow \{0 | \}) \\
&\qquad\qquad\qquad (\{0, 1, 2 | \} \rightarrow \{| \} \rightarrow \{0, 1 | \})
\end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ &(\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ &(\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ &(\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

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$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ &(\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ &(\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\ &(\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \\ &(\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\ &(\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ &(\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ &(\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ &(\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

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$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ &(\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$











$$\begin{aligned} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

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$$\begin{aligned} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

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$$\begin{aligned} (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned}
 (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) &\rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\
 (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) &
 \end{aligned}$$


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$$\begin{aligned}
 (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &\rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\
 (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) &
 \end{aligned}$$

$$\begin{aligned}
 (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &\rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\
 (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) &
 \end{aligned}$$


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$$\begin{aligned}
 (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) &\rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\
 (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) &
 \end{aligned}$$

## 2. Mediale Kanäle

2.1. Chreode = ( $\{\mid\}$  →  $\{0\mid\}$  →  $\{0,1\mid\}$ )

( $\{\mid\}$  →  $\{0\mid\}$  →  $\{0,1\mid\}$ ) → ( $\{\mid\}$  →  $\{0\mid\}$  →  $\{0,1,2\mid\}$ )  
( $\{\mid\}$  →  $\{0\mid\}$  →  $\{0,1\mid\}$ )

( $\{\mid\}$  →  $\{0\mid\}$  →  $\{0,1\mid\}$ ) → ( $\{\mid\}$  →  $\{0,1\mid\}$  →  $\{0\mid\}$ )  
( $\{\mid\}$  →  $\{0\mid\}$  →  $\{0,1\mid\}$ )

( $\{\mid\}$  →  $\{0\mid\}$  →  $\{0,1\mid\}$ ) → ( $\{\mid\}$  →  $\{0,1\mid\}$  →  $\{0,1,2\mid\}$ )  
( $\{\mid\}$  →  $\{0\mid\}$  →  $\{0,1\mid\}$ )

( $\{\mid\}$  →  $\{0\mid\}$  →  $\{0,1\mid\}$ ) → ( $\{\mid\}$  →  $\{0,1,2\mid\}$  →  $\{0\mid\}$ )  
( $\{\mid\}$  →  $\{0\mid\}$  →  $\{0,1\mid\}$ )

( $\{\mid\}$  →  $\{0\mid\}$  →  $\{0,1\mid\}$ ) → ( $\{\mid\}$  →  $\{0,1,2\mid\}$  →  $\{0,1\mid\}$ )  
( $\{\mid\}$  →  $\{0\mid\}$  →  $\{0,1\mid\}$ )

( $\{\mid\}$  →  $\{0\mid\}$  →  $\{0,1\mid\}$ ) → ( $\{0\mid\}$  →  $\{\mid\}$  →  $\{0,1\mid\}$ )  
( $\{\mid\}$  →  $\{0\mid\}$  →  $\{0,1\mid\}$ )

( $\{\mid\}$  →  $\{0\mid\}$  →  $\{0,1\mid\}$ ) → ( $\{0\mid\}$  →  $\{\mid\}$  →  $\{0,1,2\mid\}$ )  
( $\{\mid\}$  →  $\{0\mid\}$  →  $\{0,1\mid\}$ )

( $\{\mid\}$  →  $\{0\mid\}$  →  $\{0,1\mid\}$ ) → ( $\{0\mid\}$  →  $\{0,1\mid\}$  →  $\{\mid\}$ )  
( $\{\mid\}$  →  $\{0\mid\}$  →  $\{0,1\mid\}$ )

$$\begin{array}{l} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$









$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow & \quad (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ & (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow & \quad (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ & (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow & \quad (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ & (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow & \quad (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ & (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow & \quad (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ & (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow & \quad (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ & (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow & \quad (\{\mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \\ & (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow & \quad (\{\mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) \\ & (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

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$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$$

$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$$

$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$$

$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$$

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$$(\{0\} \rightarrow \{0, 1, 2\} \rightarrow \{\}) \rightarrow (\{0, 1, 2\} \rightarrow \{0, 1\} \rightarrow \{0\})$$

$$(\{\} \rightarrow \{0\} \rightarrow \{0, 1\})$$

$$(\{0\} \rightarrow \{0, 1, 2\} \rightarrow \{0, 1\}) \rightarrow (\{0, 1\} \rightarrow \{\} \rightarrow \{0\})$$

$$(\{\} \rightarrow \{0\} \rightarrow \{0, 1\})$$

$$(\{0\} \rightarrow \{0, 1, 2\} \rightarrow \{0, 1\}) \rightarrow (\{0, 1\} \rightarrow \{\} \rightarrow \{0, 1, 2\})$$

$$(\{\} \rightarrow \{0\} \rightarrow \{0, 1\})$$

$$(\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) \rightarrow (\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{ | \})$$

$$(\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \})$$

$$(\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) \rightarrow (\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \})$$

$$(\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \})$$

$$(\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) \rightarrow (\{0, 1 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{ | \})$$

$$(\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \})$$

$$(\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) \rightarrow (\{0, 1 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0 | \})$$

$$(\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \})$$

$$(\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) \rightarrow (\{0, 1, 2 | \} \rightarrow \{ | \} \rightarrow \{0 | \})$$

$$(\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \})$$

$$(\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) \rightarrow (\{0, 1, 2 | \} \rightarrow \{ | \} \rightarrow \{0, 1 | \})$$

$$(\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \})$$

$$(\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) \rightarrow (\{0, 1, 2 | \} \rightarrow \{0 | \} \rightarrow \{ | \})$$

$$(\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \})$$

$$(\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) \rightarrow (\{0, 1, 2 | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \})$$

$$(\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \})$$





$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

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$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$







$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

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$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

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$$\begin{aligned} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{aligned}$$

$$\begin{array}{l} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \end{array}$$

$$\begin{aligned}
 (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) &\rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\
 (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &
 \end{aligned}$$


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$$\begin{aligned}
 (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &\rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\
 (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &
 \end{aligned}$$

$$\begin{aligned}
 (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &\rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\
 (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &
 \end{aligned}$$


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$$\begin{aligned}
 (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) &\rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\
 (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &
 \end{aligned}$$

2.2. Chreode = ( $\{\mid\}$   $\rightarrow$   $\{0\mid\}$   $\rightarrow$   $\{0, 1, 2\mid\}$ )

( $\{\mid\}$   $\rightarrow$   $\{0\mid\}$   $\rightarrow$   $\{0, 1\mid\}$ )  $\rightarrow$  ( $\{\mid\}$   $\rightarrow$   $\{0\mid\}$   $\rightarrow$   $\{0, 1, 2\mid\}$ )

( $\{\mid\}$   $\rightarrow$   $\{0\mid\}$   $\rightarrow$   $\{0, 1, 2\mid\}$ )

( $\{\mid\}$   $\rightarrow$   $\{0\mid\}$   $\rightarrow$   $\{0, 1\mid\}$ )  $\rightarrow$  ( $\{\mid\}$   $\rightarrow$   $\{0, 1\mid\}$   $\rightarrow$   $\{0\mid\}$ )

( $\{\mid\}$   $\rightarrow$   $\{0\mid\}$   $\rightarrow$   $\{0, 1, 2\mid\}$ )

( $\{\mid\}$   $\rightarrow$   $\{0\mid\}$   $\rightarrow$   $\{0, 1\mid\}$ )  $\rightarrow$  ( $\{\mid\}$   $\rightarrow$   $\{0, 1\mid\}$   $\rightarrow$   $\{0, 1, 2\mid\}$ )

( $\{\mid\}$   $\rightarrow$   $\{0\mid\}$   $\rightarrow$   $\{0, 1, 2\mid\}$ )

( $\{\mid\}$   $\rightarrow$   $\{0\mid\}$   $\rightarrow$   $\{0, 1\mid\}$ )  $\rightarrow$  ( $\{\mid\}$   $\rightarrow$   $\{0, 1, 2\mid\}$   $\rightarrow$   $\{0\mid\}$ )

( $\{\mid\}$   $\rightarrow$   $\{0\mid\}$   $\rightarrow$   $\{0, 1, 2\mid\}$ )

( $\{\mid\}$   $\rightarrow$   $\{0\mid\}$   $\rightarrow$   $\{0, 1\mid\}$ )  $\rightarrow$  ( $\{\mid\}$   $\rightarrow$   $\{0, 1, 2\mid\}$   $\rightarrow$   $\{0, 1\mid\}$ )

( $\{\mid\}$   $\rightarrow$   $\{0\mid\}$   $\rightarrow$   $\{0, 1, 2\mid\}$ )

( $\{\mid\}$   $\rightarrow$   $\{0\mid\}$   $\rightarrow$   $\{0, 1\mid\}$ )  $\rightarrow$  ( $\{0\mid\}$   $\rightarrow$   $\{\mid\}$   $\rightarrow$   $\{0, 1\mid\}$ )

( $\{\mid\}$   $\rightarrow$   $\{0\mid\}$   $\rightarrow$   $\{0, 1, 2\mid\}$ )

( $\{\mid\}$   $\rightarrow$   $\{0\mid\}$   $\rightarrow$   $\{0, 1\mid\}$ )  $\rightarrow$  ( $\{0\mid\}$   $\rightarrow$   $\{\mid\}$   $\rightarrow$   $\{0, 1, 2\mid\}$ )

( $\{\mid\}$   $\rightarrow$   $\{0\mid\}$   $\rightarrow$   $\{0, 1, 2\mid\}$ )

( $\{\mid\}$   $\rightarrow$   $\{0\mid\}$   $\rightarrow$   $\{0, 1\mid\}$ )  $\rightarrow$  ( $\{0\mid\}$   $\rightarrow$   $\{0, 1\mid\}$   $\rightarrow$   $\{\mid\}$ )

( $\{\mid\}$   $\rightarrow$   $\{0\mid\}$   $\rightarrow$   $\{0, 1, 2\mid\}$ )

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$







$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\})$$

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$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\})$$

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$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow & \quad (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ & (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow & \quad (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ & (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow & \quad (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ & (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow & \quad (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ & (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow & \quad (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ & (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow & \quad (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ & (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow & \quad (\{\mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \\ & (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow & \quad (\{\mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) \\ & (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

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 (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\
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$$(\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{ | \}) \rightarrow (\{0, 1, 2 | \} \rightarrow \{0 | \} \rightarrow \{ | \})$$

$$(\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \})$$

$$(\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{ | \}) \rightarrow (\{0, 1, 2 | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \})$$

$$(\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \})$$

$$(\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{ | \}) \rightarrow (\{0, 1, 2 | \} \rightarrow \{0, 1 | \} \rightarrow \{ | \})$$

$$(\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \})$$

$$(\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{ | \}) \rightarrow (\{0, 1, 2 | \} \rightarrow \{0, 1 | \} \rightarrow \{0 | \})$$

$$(\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \})$$

$$(\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) \rightarrow (\{0, 1 | \} \rightarrow \{ | \} \rightarrow \{0 | \})$$

$$(\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \})$$

$$(\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) \rightarrow (\{0, 1 | \} \rightarrow \{ | \} \rightarrow \{0, 1, 2 | \})$$

$$(\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \})$$

$$\begin{aligned} (\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) &\rightarrow (\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{ | \}) \\ (\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \}) & \end{aligned}$$

$$\begin{aligned} (\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) &\rightarrow (\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \}) \\ (\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \}) & \end{aligned}$$

$$\begin{aligned} (\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) &\rightarrow (\{0, 1 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{ | \}) \\ (\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \}) & \end{aligned}$$

$$\begin{aligned} (\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) &\rightarrow (\{0, 1 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0 | \}) \\ (\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \}) & \end{aligned}$$

$$\begin{aligned} (\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) &\rightarrow (\{0, 1, 2 | \} \rightarrow \{ | \} \rightarrow \{0 | \}) \\ (\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \}) & \end{aligned}$$

$$\begin{aligned} (\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) &\rightarrow (\{0, 1, 2 | \} \rightarrow \{ | \} \rightarrow \{0, 1 | \}) \\ (\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \}) & \end{aligned}$$

$$\begin{aligned} (\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) &\rightarrow (\{0, 1, 2 | \} \rightarrow \{0 | \} \rightarrow \{ | \}) \\ (\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \}) & \end{aligned}$$

$$\begin{aligned} (\{0 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}) &\rightarrow (\{0, 1, 2 | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \}) \\ (\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \}) & \end{aligned}$$



$$\begin{aligned}
 (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) &\rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\
 (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) &
 \end{aligned}$$

$$\begin{aligned}
 (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) &\rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\
 (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) &
 \end{aligned}$$

$$\begin{aligned}
 (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) &\rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \\
 (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) &
 \end{aligned}$$

$$\begin{aligned}
 (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) &\rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\
 (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) &
 \end{aligned}$$

$$\begin{aligned}
 (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) &\rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\
 (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) &
 \end{aligned}$$

$$\begin{aligned}
 (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) &\rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\
 (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) &
 \end{aligned}$$

$$\begin{aligned}
 (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) &\rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \\
 (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) &
 \end{aligned}$$

$$\begin{aligned}
 (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) &\rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\
 (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) &
 \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid \}) &\rightarrow \{ \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{ \mid \} \rightarrow \{0, 1 \mid \}) \\ &(\{ \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1, 2 \mid \}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid \}) &\rightarrow \{ \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \}) \\ &(\{ \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1, 2 \mid \}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid \}) &\rightarrow \{ \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1 \mid \}) \\ &(\{ \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1, 2 \mid \}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid \}) &\rightarrow \{ \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0, 1 \mid \} \rightarrow \{ \mid \}) \\ &(\{ \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1, 2 \mid \}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid \}) &\rightarrow \{ \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0, 1 \mid \} \rightarrow \{0 \mid \}) \\ &(\{ \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1, 2 \mid \}) \end{aligned}$$

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$$\begin{aligned} (\{0, 1 \mid \}) &\rightarrow \{ \mid \} \rightarrow \{0, 1, 2 \mid \}) \rightarrow (\{0, 1 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \}) \\ &(\{ \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1, 2 \mid \}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid \}) &\rightarrow \{ \mid \} \rightarrow \{0, 1, 2 \mid \}) \rightarrow (\{0, 1 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1, 2 \mid \}) \\ &(\{ \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1, 2 \mid \}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid \}) &\rightarrow \{ \mid \} \rightarrow \{0, 1, 2 \mid \}) \rightarrow (\{0, 1 \mid \} \rightarrow \{0, 1, 2 \mid \} \rightarrow \{ \mid \}) \\ &(\{ \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1, 2 \mid \}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

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$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{array}{l} (\{0, 1 \mid\}) \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1 \mid\}) \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1 \mid\}) \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1 \mid\}) \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1 \mid\}) \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1 \mid\}) \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1 \mid\}) \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1 \mid\}) \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{array}$$

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$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow \{\mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow \{0 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) &\rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ &(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

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$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1 \mid\}) \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

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$$\begin{aligned} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{array}{l} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{array}$$

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$$\begin{array}{l} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{array}$$

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$$\begin{array}{l} (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{array}$$

$$\begin{array}{l} (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\ (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{array}$$



$$\begin{aligned}
 (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\
 (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})
 \end{aligned}$$


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$$\begin{aligned}
 (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \\
 (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})
 \end{aligned}$$

$$\begin{aligned}
 (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\
 (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})
 \end{aligned}$$


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$$\begin{aligned}
 (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \\
 (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})
 \end{aligned}$$

2.3. Chreode = ( $\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{ | \}$ )

( $\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \}$ )  $\rightarrow$  ( $\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \}$ )  
 ( $\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{ | \}$ )

( $\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \}$ )  $\rightarrow$  ( $\{ | \} \rightarrow \{0, 1 | \} \rightarrow \{0 | \}$ )  
 ( $\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{ | \}$ )

( $\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \}$ )  $\rightarrow$  ( $\{ | \} \rightarrow \{0, 1 | \} \rightarrow \{0, 1, 2 | \}$ )  
 ( $\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{ | \}$ )

( $\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \}$ )  $\rightarrow$  ( $\{ | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0 | \}$ )  
 ( $\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{ | \}$ )

( $\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \}$ )  $\rightarrow$  ( $\{ | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}$ )  
 ( $\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{ | \}$ )

( $\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \}$ )  $\rightarrow$  ( $\{0 | \} \rightarrow \{ | \} \rightarrow \{0, 1 | \}$ )  
 ( $\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{ | \}$ )

( $\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \}$ )  $\rightarrow$  ( $\{0 | \} \rightarrow \{ | \} \rightarrow \{0, 1, 2 | \}$ )  
 ( $\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{ | \}$ )

( $\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \}$ )  $\rightarrow$  ( $\{0 | \} \rightarrow \{0, 1 | \} \rightarrow \{ | \}$ )  
 ( $\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{ | \}$ )

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &\rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &\rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &\rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &\rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &\rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &\rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &\rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) &\rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \\ &(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \end{aligned}$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\})$$

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$$(\{0, 1 \mid \} \rightarrow \{0, 1, 2 \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{ \mid \} \rightarrow \{0, 1 \mid \})$$

$$(\{0, 1 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \})$$

$$(\{0, 1 \mid \} \rightarrow \{0, 1, 2 \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \})$$

$$(\{0, 1 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \})$$

$$(\{0, 1 \mid \} \rightarrow \{0, 1, 2 \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1 \mid \})$$

$$(\{0, 1 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \})$$

$$(\{0, 1 \mid \} \rightarrow \{0, 1, 2 \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0, 1 \mid \} \rightarrow \{ \mid \})$$

$$(\{0, 1 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \})$$

$$\begin{array}{l}
(\{0, 1 \mid \} \rightarrow \{0, 1, 2 \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0, 1 \mid \} \\
\rightarrow \{0 \mid \}) \\
(\{0, 1 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \})
\end{array}$$


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$$\begin{array}{l}
(\{0, 1, 2 \mid \} \rightarrow \{ \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{ \mid \} \rightarrow \{0, 1 \mid \\
\}) \\
(\{0, 1 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \})
\end{array}$$

$$\begin{array}{l}
(\{0, 1, 2 \mid \} \rightarrow \{ \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \}) \\
(\{0, 1 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \})
\end{array}$$

$$\begin{array}{l}
(\{0, 1, 2 \mid \} \rightarrow \{ \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1 \mid \\
\}) \\
(\{0, 1 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \})
\end{array}$$

$$\begin{array}{l}
(\{0, 1, 2 \mid \} \rightarrow \{ \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0, 1 \mid \} \rightarrow \\
\{ \mid \}) \\
(\{0, 1 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \})
\end{array}$$

$$\begin{array}{l}
(\{0, 1, 2 \mid \} \rightarrow \{ \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0, 1 \mid \} \rightarrow \\
\{0 \mid \}) \\
(\{0, 1 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \})
\end{array}$$


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$$\begin{array}{l}
(\{0, 1, 2 \mid \} \rightarrow \{ \mid \} \rightarrow \{0, 1 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \\
\{ \mid \}) \\
(\{0, 1 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \})
\end{array}$$

$$(\{0, 1, 2 \mid\} \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{ \mid\})$$

$$(\{0, 1, 2 \mid\} \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{ \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{ \mid\})$$

$$(\{0, 1, 2 \mid\} \rightarrow \{ \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{ \mid\})$$

$$(\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{ \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{ \mid\})$$

$$(\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{ \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{ \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{ \mid\})$$

$$(\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{ \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{ \mid\})$$

$$(\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{ \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{ \mid\})$$

$$\begin{array}{ccccccc}
(\{0, 1, 2 \mid\} \rightarrow & \{0 \mid\} \rightarrow & \{0, 1 \mid\}) & \rightarrow & (\{0, 1, 2 \mid\} \rightarrow & \{0, 1 \mid\} \\
\rightarrow & \{0 \mid\}) & & & & \\
& & (\{0, 1 \mid\} \rightarrow & \{0 \mid\} \rightarrow & \{\mid\}) & 
\end{array}$$

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$$\begin{array}{ccccccc}
(\{0, 1, 2 \mid\} \rightarrow & \{0, 1 \mid\} \rightarrow & \{\mid\}) & \rightarrow & (\{0, 1, 2 \mid\} \rightarrow & \{0, 1 \mid\} \\
\rightarrow & \{0 \mid\}) & & & & \\
& & (\{0, 1 \mid\} \rightarrow & \{0 \mid\} \rightarrow & \{\mid\}) & 
\end{array}$$

2.4. Chreode = ( $\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \}$ )

( $\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \}$ )  $\rightarrow$  ( $\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \}$ )  
 $(\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \})$

( $\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \}$ )  $\rightarrow$  ( $\{ | \} \rightarrow \{0, 1 | \} \rightarrow \{0 | \}$ )  
 $(\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \})$

( $\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \}$ )  $\rightarrow$  ( $\{ | \} \rightarrow \{0, 1 | \} \rightarrow \{0, 1, 2 | \}$ )  
 $(\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \})$

( $\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \}$ )  $\rightarrow$  ( $\{ | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0 | \}$ )  
 $(\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \})$

( $\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \}$ )  $\rightarrow$  ( $\{ | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0, 1 | \}$ )  
 $(\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \})$

( $\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \}$ )  $\rightarrow$  ( $\{0 | \} \rightarrow \{ | \} \rightarrow \{0, 1 | \}$ )  
 $(\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \})$

( $\{ | \} \rightarrow \{0 | \} \rightarrow \{0, 1 | \}$ )  $\rightarrow$  ( $\{0 | \} \rightarrow \{ | \} \rightarrow \{0, 1, 2 | \}$ )  
 $(\{0, 1 | \} \rightarrow \{0 | \} \rightarrow \{0, 1, 2 | \})$



$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

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$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1\mid\}) \rightarrow (\{0,1\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1,2\mid\})$$

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$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1\mid\}) \rightarrow (\{0,1\mid\} \rightarrow \{0,1,2\mid\} \rightarrow \{\mid\})$$

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$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1\mid\}) \rightarrow (\{0,1\mid\} \rightarrow \{0,1,2\mid\} \rightarrow \{0\mid\})$$

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$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1\mid\}) \rightarrow (\{0,1,2\mid\} \rightarrow \{\mid\} \rightarrow \{0\mid\})$$

$$(\{0,1\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1,2\mid\})$$

$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1\mid\}) \rightarrow (\{0,1,2\mid\} \rightarrow \{\mid\} \rightarrow \{0,1\mid\})$$

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$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\})$

$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$

$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\})$

$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$

$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\})$

$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$

$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\})$

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$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\})$

$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$

$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\})$

$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$

$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0, 1, 2\mid\}) \rightarrow (\{0, 1\mid\} \rightarrow \{0\mid\} \rightarrow \{\mid\})$$

$$(\{0, 1\mid\} \rightarrow \{0\mid\} \rightarrow \{0, 1, 2\mid\})$$

$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0, 1, 2\mid\}) \rightarrow (\{0, 1\mid\} \rightarrow \{0\mid\} \rightarrow \{0, 1, 2\mid\})$$

$$(\{0, 1\mid\} \rightarrow \{0\mid\} \rightarrow \{0, 1, 2\mid\})$$

$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0, 1, 2\mid\}) \rightarrow (\{0, 1\mid\} \rightarrow \{0, 1, 2\mid\} \rightarrow \{\mid\})$$

$$(\{0, 1\mid\} \rightarrow \{0\mid\} \rightarrow \{0, 1, 2\mid\})$$

$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0, 1, 2\mid\}) \rightarrow (\{0, 1\mid\} \rightarrow \{0, 1, 2\mid\} \rightarrow \{0\mid\})$$

$$(\{0, 1\mid\} \rightarrow \{0\mid\} \rightarrow \{0, 1, 2\mid\})$$

$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0, 1, 2\mid\}) \rightarrow (\{0, 1, 2\mid\} \rightarrow \{\mid\} \rightarrow \{0\mid\})$$

$$(\{0, 1\mid\} \rightarrow \{0\mid\} \rightarrow \{0, 1, 2\mid\})$$

$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0, 1, 2\mid\}) \rightarrow (\{0, 1, 2\mid\} \rightarrow \{\mid\} \rightarrow \{0, 1\mid\})$$

$$(\{0, 1\mid\} \rightarrow \{0\mid\} \rightarrow \{0, 1, 2\mid\})$$

$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0, 1, 2\mid\}) \rightarrow (\{0, 1, 2\mid\} \rightarrow \{0\mid\} \rightarrow \{\mid\})$$

$$(\{0, 1\mid\} \rightarrow \{0\mid\} \rightarrow \{0, 1, 2\mid\})$$

$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid$   
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$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$

$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow$   
 $\{\mid\})$

$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$

$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow$   
 $\{0 \mid\})$

$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$

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$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1,$   
 $2 \mid\})$

$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$

$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\})$   
 $(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$

$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid$   
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$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$

$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid$   
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$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$

$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, \\ 2 \mid\}) \\ (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \\ \{\mid\}) \\ (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \\ \{0 \mid\}) \\ (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}) \\ (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid \\ \}) \\ (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$

$$\begin{aligned} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\ (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \end{aligned}$$



$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$

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$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\})$

$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$

$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$

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$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\})$

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$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\})$

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$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\})$

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$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\})$

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$$\begin{array}{l} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ \rightarrow \{\mid\}) \end{array}$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$\begin{array}{l} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\}) \\ \rightarrow \{0, 1, 2 \mid\}) \end{array}$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$\begin{array}{l} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ \rightarrow \{\mid\}) \end{array}$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$\begin{array}{l} (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \\ \rightarrow \{0, 1 \mid\}) \end{array}$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

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2.5. Chreode = ( $\{0, 1, 2 \mid\}$  →  $\{0 \mid\}$  →  $\{\mid\}$ )  
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$$\begin{array}{l} (\{0, 1 \mid \} \rightarrow \{0, 1, 2 \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0, 1 \mid \} \\ \rightarrow \{0 \mid \}) \\ (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \}) \end{array}$$

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$$\begin{array}{l} (\{0, 1, 2 \mid \} \rightarrow \{ \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{ \mid \} \rightarrow \{0, 1 \mid \\ \}) \\ (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \}) \end{array}$$

$$\begin{array}{l} (\{0, 1, 2 \mid \} \rightarrow \{ \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \}) \\ (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \}) \end{array}$$

$$\begin{array}{l} (\{0, 1, 2 \mid \} \rightarrow \{ \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1 \mid \\ \}) \\ (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \}) \end{array}$$

$$\begin{array}{l} (\{0, 1, 2 \mid \} \rightarrow \{ \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0, 1 \mid \} \rightarrow \\ \{ \mid \}) \\ (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \}) \end{array}$$

$$\begin{array}{l} (\{0, 1, 2 \mid \} \rightarrow \{ \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0, 1 \mid \} \rightarrow \\ \{0 \mid \}) \\ (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \}) \end{array}$$


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2.6. Chreode = ( $\{0, 1, 2 \mid\}$  →  $\{0 \mid\}$  →  $\{0, 1 \mid\}$ )  
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$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\})$$

$$(\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$$

$$(\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\})$$

$$(\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\})$$

$$(\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\})$$

$$(\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$$

$$(\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\})$$

$$(\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$$

$$(\{0, 1 \mid \} \rightarrow \{0, 1, 2 \mid \} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1 \mid \})$$

$$(\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1 \mid \})$$

$$(\{0, 1 \mid \} \rightarrow \{0, 1, 2 \mid \} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0, 1 \mid \} \rightarrow \{\mid\})$$

$$(\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1 \mid \})$$

$$(\{0, 1 \mid \} \rightarrow \{0, 1, 2 \mid \} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0, 1 \mid \} \rightarrow \{0 \mid \})$$

$$(\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1 \mid \})$$

$$(\{0, 1 \mid \} \rightarrow \{0, 1, 2 \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{\mid\} \rightarrow \{0 \mid \})$$

$$(\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1 \mid \})$$

$$(\{0, 1 \mid \} \rightarrow \{0, 1, 2 \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid \})$$

$$(\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1 \mid \})$$

$$(\{0, 1 \mid \} \rightarrow \{0, 1, 2 \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{\mid\})$$

$$(\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1 \mid \})$$

$$(\{0, 1 \mid \} \rightarrow \{0, 1, 2 \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1 \mid \})$$

$$(\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1 \mid \})$$

$$\begin{array}{l}
\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \\
\rightarrow \{\mid\} \\
\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}
\end{array}$$

$$\begin{array}{l}
\{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \\
\rightarrow \{0 \mid\} \\
\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}
\end{array}$$

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$$\begin{array}{l}
\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\} \\
\} \\
\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}
\end{array}$$

$$\begin{array}{l}
\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\} \\
\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}
\end{array}$$

$$\begin{array}{l}
\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\} \\
\} \\
\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}
\end{array}$$

$$\begin{array}{l}
\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \\
\{\mid\} \\
\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}
\end{array}$$

$$\begin{array}{l}
\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \\
\{0 \mid\} \\
\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}
\end{array}$$


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$$(\{0, 1, 2 \mid \} \rightarrow \{ \mid \} \rightarrow \{0, 1 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow$$

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$$(\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1 \mid \})$$

$$(\{0, 1, 2 \mid \} \rightarrow \{ \mid \} \rightarrow \{0, 1 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow$$

$$\{0, 1 \mid \})$$

$$(\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1 \mid \})$$

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$$\rightarrow \{ \mid \})$$

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$$(\{0, 1, 2 \mid \} \rightarrow \{ \mid \} \rightarrow \{0, 1 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0, 1 \mid \}$$

$$\rightarrow \{0 \mid \})$$

$$(\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1 \mid \})$$

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$$(\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1 \mid$$

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$$(\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1 \mid \})$$

$$(\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0, 1 \mid \} \rightarrow$$

$$\{ \mid \})$$

$$(\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1 \mid \})$$

$$(\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{ \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{0, 1 \mid \} \rightarrow$$

$$\{0 \mid \})$$

$$(\{0, 1, 2 \mid \} \rightarrow \{0 \mid \} \rightarrow \{0, 1 \mid \})$$

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$$(\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\})$$

$$(\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$$

$$(\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$$

$$(\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$$

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$$(\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$$

$$(\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$$

### 3. Objektale Kanäle

3.1. Chreode = ( $\{|\}$   $\rightarrow$   $\{0, 1|\}$   $\rightarrow$   $\{0|\}$ )

( $\{|\}$   $\rightarrow$   $\{0|\}$   $\rightarrow$   $\{0, 1|\}$ )  $\rightarrow$  ( $\{|\}$   $\rightarrow$   $\{0|\}$   $\rightarrow$   $\{0, 1, 2|\}$ )  
 $(\{|\} \rightarrow \{0, 1|\} \rightarrow \{0|\})$

( $\{|\}$   $\rightarrow$   $\{0|\}$   $\rightarrow$   $\{0, 1|\}$ )  $\rightarrow$  ( $\{|\}$   $\rightarrow$   $\{0, 1|\}$   $\rightarrow$   $\{0|\}$ )  
 $(\{|\} \rightarrow \{0, 1|\} \rightarrow \{0|\})$

( $\{|\}$   $\rightarrow$   $\{0|\}$   $\rightarrow$   $\{0, 1|\}$ )  $\rightarrow$  ( $\{|\}$   $\rightarrow$   $\{0, 1|\}$   $\rightarrow$   $\{0, 1, 2|\}$ )  
 $(\{|\} \rightarrow \{0, 1|\} \rightarrow \{0|\})$

( $\{|\}$   $\rightarrow$   $\{0|\}$   $\rightarrow$   $\{0, 1|\}$ )  $\rightarrow$  ( $\{|\}$   $\rightarrow$   $\{0, 1, 2|\}$   $\rightarrow$   $\{0|\}$ )  
 $(\{|\} \rightarrow \{0, 1|\} \rightarrow \{0|\})$

( $\{|\}$   $\rightarrow$   $\{0|\}$   $\rightarrow$   $\{0, 1|\}$ )  $\rightarrow$  ( $\{|\}$   $\rightarrow$   $\{0, 1, 2|\}$   $\rightarrow$   $\{0, 1|\}$ )  
 $(\{|\} \rightarrow \{0, 1|\} \rightarrow \{0|\})$

( $\{|\}$   $\rightarrow$   $\{0|\}$   $\rightarrow$   $\{0, 1|\}$ )  $\rightarrow$  ( $\{0|\}$   $\rightarrow$   $\{|\}$   $\rightarrow$   $\{0, 1|\}$ )  
 $(\{|\} \rightarrow \{0, 1|\} \rightarrow \{0|\})$

( $\{|\}$   $\rightarrow$   $\{0|\}$   $\rightarrow$   $\{0, 1|\}$ )  $\rightarrow$  ( $\{0|\}$   $\rightarrow$   $\{|\}$   $\rightarrow$   $\{0, 1, 2|\}$ )  
 $(\{|\} \rightarrow \{0, 1|\} \rightarrow \{0|\})$



$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\})$$

$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{\mid\})$$

$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\})$$

$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\})$$

$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\})$$

$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$$

$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1\mid\}) \rightarrow (\{0,1\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1,2\mid\})$

$(\{\mid\} \rightarrow \{0,1\mid\} \rightarrow \{0\mid\})$

$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1\mid\}) \rightarrow (\{0,1\mid\} \rightarrow \{0,1,2\mid\} \rightarrow \{\mid\})$

$(\{\mid\} \rightarrow \{0,1\mid\} \rightarrow \{0\mid\})$

$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1\mid\}) \rightarrow (\{0,1\mid\} \rightarrow \{0,1,2\mid\} \rightarrow \{0\mid\})$

$(\{\mid\} \rightarrow \{0,1\mid\} \rightarrow \{0\mid\})$

$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1\mid\}) \rightarrow (\{0,1,2\mid\} \rightarrow \{\mid\} \rightarrow \{0\mid\})$

$(\{\mid\} \rightarrow \{0,1\mid\} \rightarrow \{0\mid\})$

$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1\mid\}) \rightarrow (\{0,1,2\mid\} \rightarrow \{\mid\} \rightarrow \{0,1\mid\})$

$(\{\mid\} \rightarrow \{0,1\mid\} \rightarrow \{0\mid\})$

$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1\mid\}) \rightarrow (\{0,1,2\mid\} \rightarrow \{0\mid\} \rightarrow \{\mid\})$

$(\{\mid\} \rightarrow \{0,1\mid\} \rightarrow \{0\mid\})$

$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1\mid\}) \rightarrow (\{0,1,2\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1\mid\})$

$(\{\mid\} \rightarrow \{0,1\mid\} \rightarrow \{0\mid\})$

$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1\mid\}) \rightarrow (\{0,1,2\mid\} \rightarrow \{0,1\mid\} \rightarrow \{\mid\})$$

$$(\{\mid\} \rightarrow \{0,1\mid\} \rightarrow \{0\mid\})$$

$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1\mid\}) \rightarrow (\{0,1,2\mid\} \rightarrow \{0,1\mid\} \rightarrow \{0\mid\})$$

$$(\{\mid\} \rightarrow \{0,1\mid\} \rightarrow \{0\mid\})$$

$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1,2\mid\}) \rightarrow (\{\mid\} \rightarrow \{0,1\mid\} \rightarrow \{0\mid\})$$

$$(\{\mid\} \rightarrow \{0,1\mid\} \rightarrow \{0\mid\})$$

$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1,2\mid\}) \rightarrow (\{\mid\} \rightarrow \{0,1\mid\} \rightarrow \{0,1,2\mid\})$$

$$(\{\mid\} \rightarrow \{0,1\mid\} \rightarrow \{0\mid\})$$

$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1,2\mid\}) \rightarrow (\{\mid\} \rightarrow \{0,1,2\mid\} \rightarrow \{0\mid\})$$

$$(\{\mid\} \rightarrow \{0,1\mid\} \rightarrow \{0\mid\})$$

$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1,2\mid\}) \rightarrow (\{\mid\} \rightarrow \{0,1,2\mid\} \rightarrow \{0,1\mid\})$$

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$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1,2\mid\}) \rightarrow (\{0\mid\} \rightarrow \{\mid\} \rightarrow \{0,1\mid\})$$

$$(\{\mid\} \rightarrow \{0,1\mid\} \rightarrow \{0\mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\})$$

$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\})$$

$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$$

$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\})$$

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$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\})$$

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$$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\})$$

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$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0, 1, 2\mid\}) \rightarrow (\{0, 1\mid\} \rightarrow \{0\mid\} \rightarrow \{\mid\})$$

$$(\{\mid\} \rightarrow \{0, 1\mid\} \rightarrow \{0\mid\})$$

$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0, 1, 2\mid\}) \rightarrow (\{0, 1\mid\} \rightarrow \{0\mid\} \rightarrow \{0, 1,$$

$$2\mid\})$$

$$(\{\mid\} \rightarrow \{0, 1\mid\} \rightarrow \{0\mid\})$$

$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0, 1, 2\mid\}) \rightarrow (\{0, 1\mid\} \rightarrow \{0, 1, 2\mid\} \rightarrow$$

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$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0, 1, 2\mid\}) \rightarrow (\{0, 1, 2\mid\} \rightarrow \{\mid\} \rightarrow \{0\mid\})$$

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$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow$

$\{0 \mid\})$

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$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1,$

$2 \mid\})$

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$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\})$

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$$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$$



$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\})$

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$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\})$

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$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$

$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$

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$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\})$

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$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\})$

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$(\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}) \rightarrow (\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\})$

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3.4. Chreode = ( $\{0 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\}$ )  
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\end{array}$$

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3.5. Chreode = ( $\{0, 1, 2 \mid\}$  →  $\{0, 1 \mid\}$  →  $\{\mid\}$ )  
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 (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\}) \rightarrow (\{0, 1 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}) \\
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\{\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}\}
\end{array}$$

$$\begin{array}{l}
\{\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}\} \rightarrow \{\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{\mid\}\} \\
\{\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}\}
\end{array}$$

$$\begin{array}{l}
\{\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}\} \rightarrow \{\{0, 1, 2 \mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid \\
\}\} \\
\{\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}\}
\end{array}$$

$$\begin{array}{l}
\{\{0, 1, 2 \mid\} \rightarrow \{\mid\} \rightarrow \{0 \mid\}\} \rightarrow \{\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \\
\{\mid\}\} \\
\{\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}\}
\end{array}$$

$$\begin{array}{l}
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\{0 \mid\}\} \\
\{\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{\mid\}\}
\end{array}$$


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3.6. Chreode = ( $\{0, 1, 2 \mid\}$  →  $\{0, 1 \mid\}$  →  $\{0 \mid\}$ )  
 $(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1, 2 \mid\})$   
 $(\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$

$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$   
 $(\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$

$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0, 1, 2 \mid\})$   
 $(\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$

$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0 \mid\})$   
 $(\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$

$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{\mid\} \rightarrow \{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\})$   
 $(\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$

$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1 \mid\})$   
 $(\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$

$(\{\mid\} \rightarrow \{0 \mid\} \rightarrow \{0, 1 \mid\}) \rightarrow (\{\{0 \mid\} \rightarrow \{\mid\} \rightarrow \{0, 1, 2 \mid\})$   
 $(\{0, 1, 2 \mid\} \rightarrow \{0, 1 \mid\} \rightarrow \{0 \mid\})$



$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1\mid\}) \rightarrow (\{0\mid\} \rightarrow \{0,1\mid\} \rightarrow \{\mid\})$$

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#### 4. Interpretative Kanäle

$$4.1. \text{ Chreode} = (\{|\} \rightarrow \{0, 1, 2|\} \rightarrow \{0|\})$$

$$(\{|\} \rightarrow \{0|\} \rightarrow \{0, 1|\}) \rightarrow (\{|\} \rightarrow \{0|\} \rightarrow \{0, 1, 2|\})$$

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$$(\{\mid\} \rightarrow \{0\mid\} \rightarrow \{0,1\mid\}) \rightarrow (\{0\mid\} \rightarrow \{0,1\mid\} \rightarrow \{\mid\})$$

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$$\begin{array}{l} (\{0, 1, 2 \mid \} \rightarrow \{ \mid \} \rightarrow \{0 \mid \}) \rightarrow (\{0, 1, 2 \mid \} \rightarrow \{ \mid \} \rightarrow \{0, 1 \mid \\ \}) \\ (\{0 \mid \} \rightarrow \{0, 1, 2 \mid \} \rightarrow \{0, 1 \mid \}) \end{array}$$

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4.6. Chreode = ( $\{0, 1 | \} \rightarrow \{0, 1, 2 | \} \rightarrow \{0 | \}$ )

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