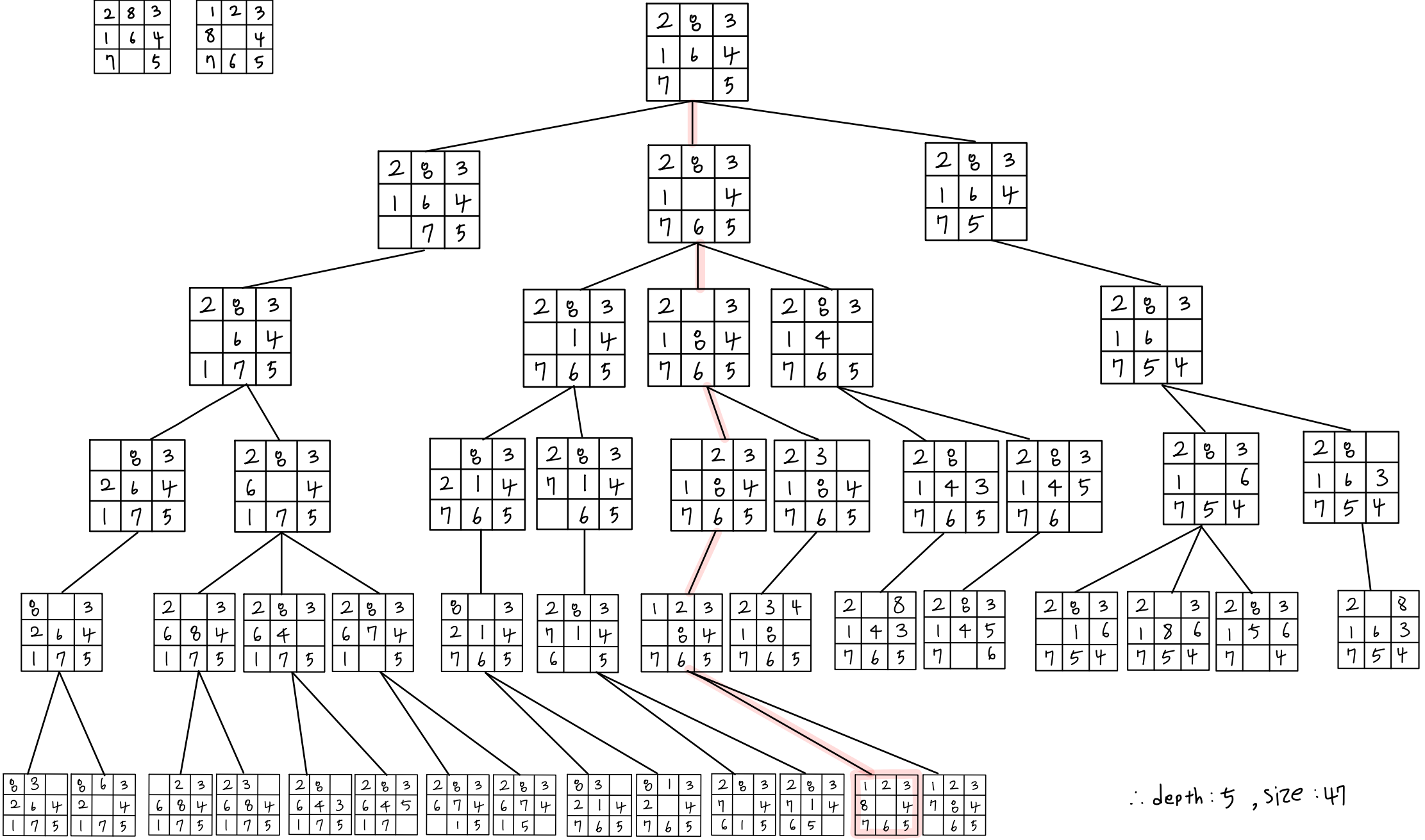


1. 2장 8-퍼즐

< 초기상태 > < 목표상태 >

2	8	3
1	6	4
7		5

1	2	3
8		4
7	6	5



∴ depth : 5 , size : 47

2. slide 13

- 초기상태, 목표상태, 연산자 정의
- 탐색에 의한 문제풀이

연산자 정의

- 상태 표현

$$\begin{pmatrix} A & B & C \\ C & B & A \end{pmatrix} \rightarrow \begin{pmatrix} B & A & C \\ C & A & B \end{pmatrix}$$

- 교환

A와 B 교환 : $\langle A, B \rangle$

1) 초기상태
①

A	B	C
C	B	A

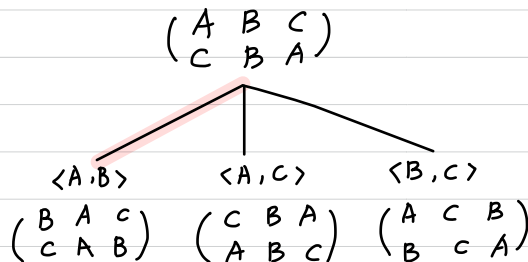
→

목표상태
②

B	A	C
C	A	B

=> A와 B 교환

탐색과정1



2) 초기상태
③

B	C	A
B	A	C

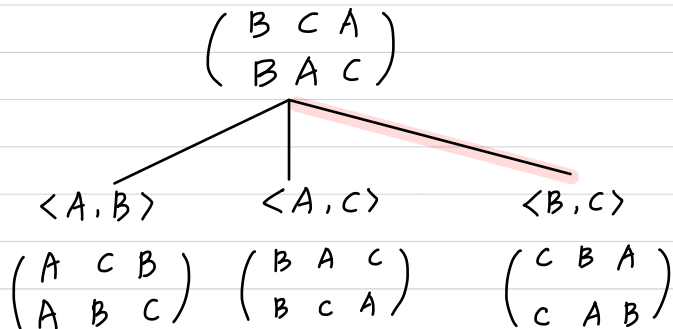
→

목표상태
④

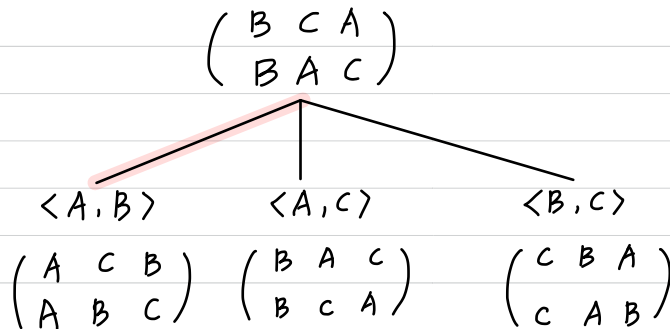
C	B	A
C	A	B

=> B와 C 교환

탐색과정 2



탐색과정 3



3)

초기상태
③

B	C	A
B	A	C

→

목표상태
⑤

A	C	B
A	B	C

⇒ A와 B 교환

3. Slide 5-6 문장생성규칙 풀이

1) 연산자 여씨

$$\textcircled{1} A\$A \rightarrow A$$

$$\textcircled{2} \$_1 BAB \$_2 \rightarrow \$_1 BB \$_2$$

$$\textcircled{3} \$_1 \$_2 \$_3 \rightarrow \$_1 \$_2 \$_2 \$_3$$

$$\textcircled{4} \$_1 \$_2 \$_2 \$_3 \rightarrow \$_1 \$_2 \$_3$$

$$\cdot "ABCBABC" \rightarrow "ABC"$$

$$1 \quad \underbrace{ABCBABC}_{\$}$$

①번 규칙

$$2 \quad ABC$$