

permutacao (3, x, used, 0)

$\frac{k}{0}$	$\frac{i}{0}$	$0 \rightarrow \text{permutacao}(3, x, \text{used}, 1) \times$
	1	$1 \rightarrow \text{permutacao}(3, x, \text{used}, 1) \times$
	2	$2 \rightarrow \text{permutacao}(3, x, \text{used}, 1) \times$

(6)

x	0	1	2
0	x	x	x
1	x	x	x
2	x	x	x

used	0	1	2
0	x	x	x
1	x	x	x
2	x	x	x

permutacao (3, x, used, 1) x

$\frac{k}{1}$	$\frac{i}{0}$	$0 \rightarrow \text{permutacao}(3, x, \text{used}, 2) \times$
	1	$1 \rightarrow \text{permutacao}(3, x, \text{used}, 2) \times$
	2	$2 \rightarrow \text{permutacao}(3, x, \text{used}, 2) \times$

permutacao (3, x, used, 2)

$\frac{k}{2}$	$\frac{i}{0}$	$0 \rightarrow \text{permutacao}(3, x, \text{used}, 3) \times$
	1	$1 \rightarrow \text{permutacao}(3, x, \text{used}, 3) \times$
	2	$2 \rightarrow \text{permutacao}(3, x, \text{used}, 3) \times$

permutacao (3, x, used, 3) x

1 2 3

permutacao (3, x, used, 2) x

$\frac{k}{2}$	$\frac{i}{0}$	$0 \rightarrow \text{permutacao}(3, x, \text{used}, 3) \times$
	1	$1 \rightarrow \text{permutacao}(3, x, \text{used}, 3) \times$
	2	$2 \rightarrow \text{permutacao}(3, x, \text{used}, 3) \times$

permutacao (3, x, used, 3) x

1 3 2

permutacao (3, x, used, 1)

$\frac{k}{1}$	$\frac{i}{0}$	$0 \rightarrow \text{permutacao}(3, x, \text{used}, 2) \times$
	1	$1 \rightarrow \text{permutacao}(3, x, \text{used}, 2) \times$
	2	$2 \rightarrow \text{permutacao}(3, x, \text{used}, 2) \times$

7 8

permutação (3, x, used, 2)

K	i
2	0
	1

2 → permutação (3, x, used, 3) X

permutação (3, x, used, 3) X

2 1 3

permutação (3, x, used, 2)

K	i
2	0
	1
	2

0 → permutação (3, x, used, 3) X

permutação (3, x, used, 3) X

2 3 1

permutação (3, x, used, 1)

K	i
1	0
	1

0 → permutação (3, x, used, 2) X

1 → permutação (3, x, used, 2) X

permutação (3, x, used, 2) X

K	i
2	0
	1

1 → permutação (3, x, used, 3) X

permutação (3, x, used, 3) X

3 1 2

permutations (3, x, used, 2) X

⑧

$\frac{k}{2}$ $\frac{i}{0} \rightarrow$ permutations (3, x, used, 3) X

X

X

permutations (3, x, used, 3) X

3	2	1
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