Prefix

$$\boxed{1} \; \boxed{1 \; | \; 2 \; | \; 3 \; | \; 4}$$

$$\boxed{1 \; | \; 2 \; | \; 8 \; | \; 24.}$$

postfix: $\boxed{1 \; | \; 2 \; | \; 3 \; | \; 4} \quad \boxed{1}$

postfix: $\boxed{24 \; | \; 24 \; | \; 12 \; | \; 4}$

$$\boxed{\cancel{1} \; | \; 2 \; | \; 3 \; | \; 4}$$

De. $\boxed{1} \quad \boxed{1 \; | \; 2 \; | \; 6 \; | \; 24}$

$$\boxed{24 \; | \; 24 \; | \; 12 \; | \; 4.}$$

$$\boxed{24 \; | \; 12 \; | \; 8 \; | \; 6.}$$

$$\overset{-1}{pre\,(o)} \quad \to \quad Post\,(1)$$

For $1 \to 1 \times 24.$

for ② $\to$ pre (o), Post (2)

$$1 \quad \times \quad 12$$

for ③ $\to \overset{pre}{2} \times 4 = 8$

for ④ $\quad 6 \times 1 = 6$

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Optimized version.

$$\boxed{1} \quad \boxed{1 \; | \; 2 \; | \; 3 \; | \; 4} \quad \boxed{1}$$

$$\boxed{1 \; | \; 1 \; | \; \; | \;}$$

Pre = 1
Pre × 2
Pre = 2×3

$$\boxed{1 \; | \; 1 \; | \; 2 \; | \; 6.}$$

$$\boxed{1 \; | \; 2 \; | \; 3 \; | \; 4} \quad \boxed{1}$$

$$\boxed{1 \; | \; 1 \; | \; 2 \; | \; 6}$$

post
4×3

$$post\,8×3 \boxed{24 \; | \; 8 \; | \; 6}$$

8×1

1	2	3	4		1

post = 1

1	1	2	6

1×24	1×12	2×4	6×1

24	12	8	6

(b) post = 1×4

post = 4×3

post = 12 × 2
= 24