Cut type pp

$3 \times 2 \times 5 \Rightarrow 30$

$A_{3\times2} \times B_{2\times5} \times C_{5\times4}$

$A = \begin{bmatrix} 1 & 2 \\ 4 & 5 \\ 7 & 8 \end{bmatrix}_{3\times2}$ $B = \begin{bmatrix} 1 & 2 & 3 & 4 & 5 \\ 6 & 7 & 8 & 9 & 10 \end{bmatrix}_{2\times5}$ $C = \begin{bmatrix} 1 & 6 & 11 & 16 \\ 2 & 7 & 12 & 17 \\ 3 & 8 & 13 & 18 \\ 4 & 9 & 14 & 19 \\ 5 & 10 & 15 & 20 \end{bmatrix}_{5\times4}$

BC $\Rightarrow$ $2 \times 5 \times 4$ $\Rightarrow$ 40

$A \times B \times C$

$30 + 60 \Rightarrow 90$

① $(AB) \times C \Rightarrow 90$

② $A \times (B \times C)$ $\Rightarrow$ $24 + 40 \Rightarrow 64$

Ans $\Rightarrow$ $\begin{bmatrix} 13 & 16 & - & - & - \\ - & - & - & - & - \\ - & - & - & - & - \end{bmatrix}_{(3\times5)} \times (5\times4)$

$3 \times 5 \times 4$

3×2 2×4 → $3\times2\times4$ → 24

A B C

3×2 2×5 5×4

$[3, 2, 5, 4] \Rightarrow 64$

3×2 5×4

2×5 1×3

$(4 \quad 2 \quad 3 \quad 1 \quad 3)$

4×2 3×1

$A \Rightarrow \{4, 2\}$

$B \Rightarrow \{2, 3\}$

$C \Rightarrow \{3, 1\}$

$D \Rightarrow \{1, 3\}$

$A \times B \times C \times D$

$((AB) \times C) \times D \Rightarrow (4\times2\times3) + (4\times3\times1) + (4\times1\times3)$

$\Rightarrow 48$

4×3 3×1 → 4×1 1×3

$(2\times3\times1)$ $(4\times2\times1)$ $(4\times1\times3)$

6 8 12 $\Rightarrow 26$

$(A \times (BC)) \times D$

2×1 → 4×1

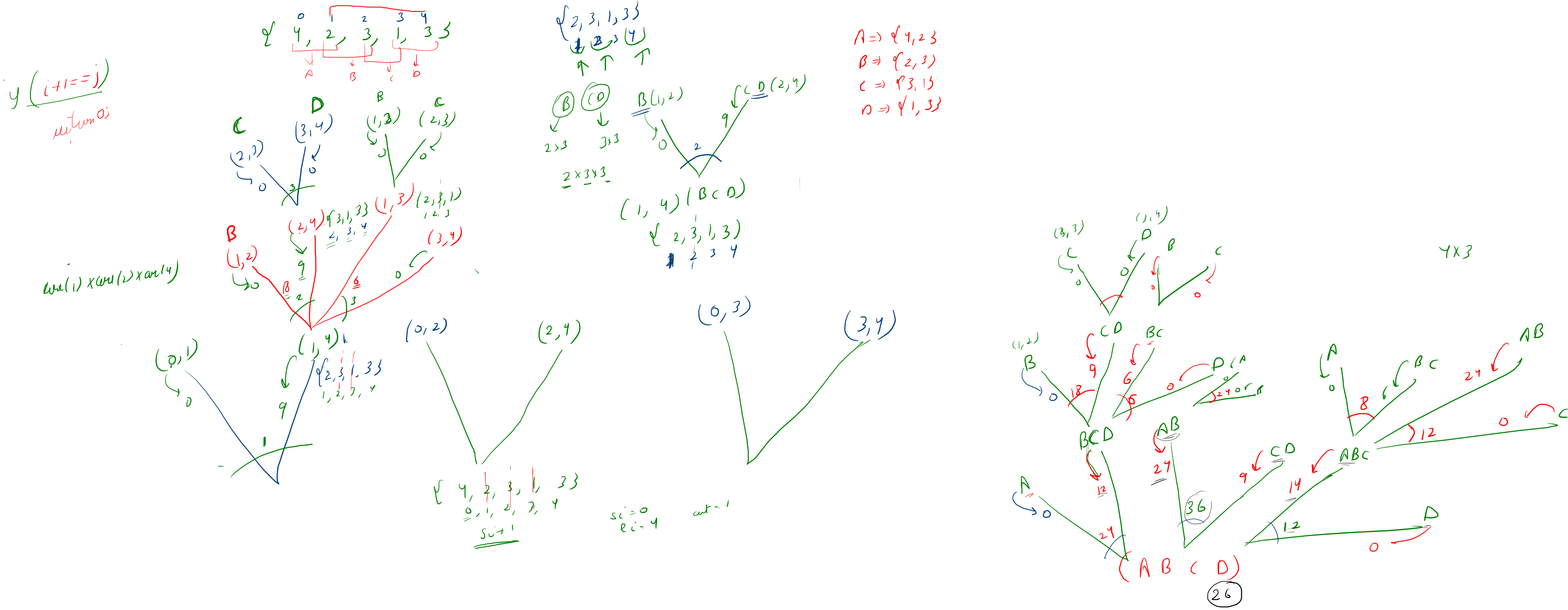
$(A \times B) \times (C \times D)$

4×3 3×3

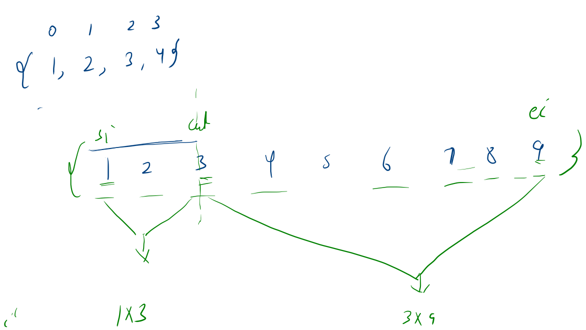
$(4\times2\times3)$ $(3\times1\times3)$ $(4\times3\times3)$

24 9 36

69



A → {1, 2, 3}
B → {2, 3}
C → {3, 4}



op = arr(si) x arr(cut) x arr(ei)

rec(si, cut) + rec(cut, ei) + op