CONVOLUTION

0

Input

$$egin{bmatrix} 1 & 2 & 0 & 1 & 3 \ 4 & 1 & 0 & 2 & 1 \ 2 & 3 & 1 & 0 & 1 \ 1 & 2 & 0 & 1 & 3 \ 3 & 1 & 2 & 3 & 0 \ \end{bmatrix}$$

Kernal

$$egin{bmatrix} 1 & 0 & -1 \ 1 & 0 & -1 \ 1 & 0 & -1 \ \end{bmatrix}$$

Output

$$egin{array}{ccccc} 6 & 3 & 2 \ 5 & 2 & 1 \ 4 & 1 & 0 \ \end{array}$$

=3



Input

 $\begin{bmatrix} 6 & 3 & 2 \\ 5 & 2 & 1 \\ 4 & 1 & 0 \end{bmatrix}$

Pooling matrix 2x2

Output



Input

 $egin{array}{c|cccc} 6 & 3 & 2 \\ 5 & 2 & 1 \\ 4 & 1 & 0 \\ \hline \end{array}$

Pooling matrix 2x2

Output



Input

Pooling matrix 2x2

Output



Input

 $egin{array}{c|cccc} 6 & 3 & 2 \ 5 & 2 & 1 \ 4 & 1 & 0 \ \end{array}$

Pooling matrix 2x2

Output



Input

 $egin{array}{ccccc} 6 & 3 & 2 \ 5 & 2 & 1 \ 4 & 1 & 0 \ \end{array}$

Pooling matrix 2x2

Output



Input

 $egin{array}{c|cccc} 6 & 3 & 2 \ 5 & 2 & 1 \ 4 & 1 & 0 \ \end{array}$

Pooling matrix 2x2

Output



Input

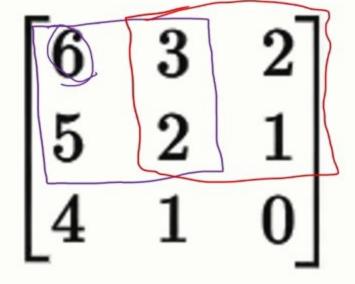
 $egin{array}{c|cccc} 6 & 3 & 2 \ 5 & 2 & 1 \ \hline 4 & 1 & 0 \ \hline \end{array}$

Pooling matrix 2x2

Output



Input

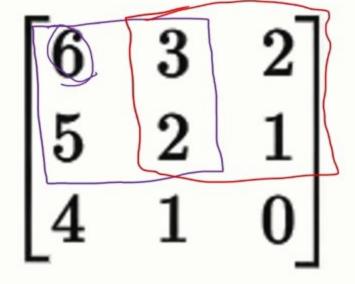


Pooling matrix 2x2

Output



Input

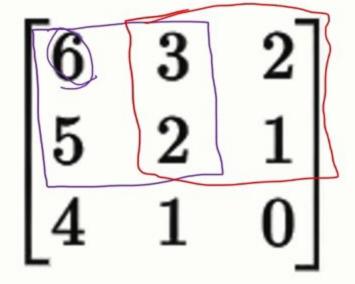


Pooling matrix 2x2

Output



Input



Pooling matrix 2x2

Output









