

н 3.

I - ам. пазар, O - нел. пазар, X - пазар згор. обр.

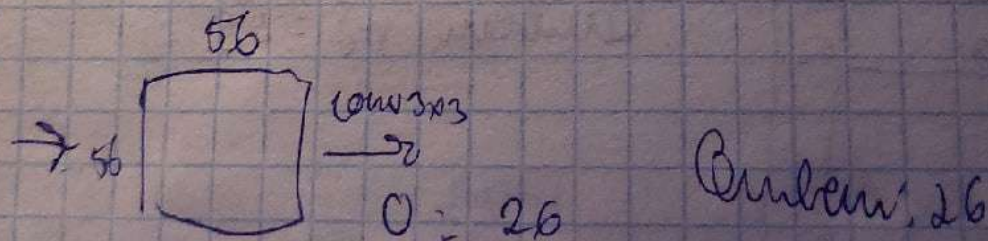
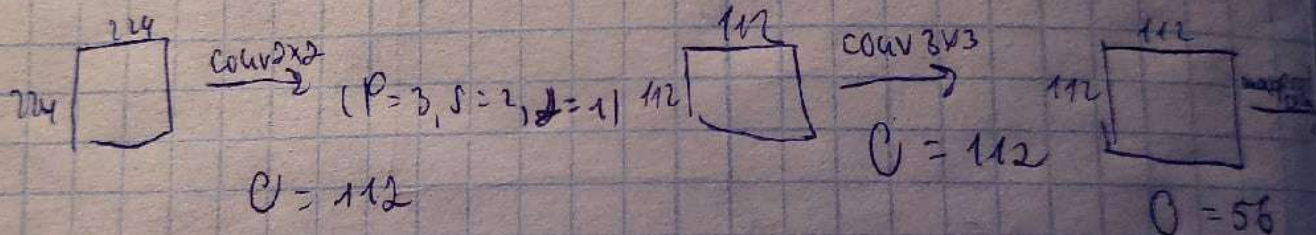
P - padding, S - stride

$$O = \frac{I - X + 2P}{S} + 1$$

или maxpool

$$O = \frac{I - P_s}{S} + 1, P_s - \text{разм. maxpool}$$

Пример



$$\begin{array}{c}
 \text{N1.} \\
 \text{Kernel}
 \end{array}
 \begin{array}{c}
 \text{result}
 \end{array}$$

$$\begin{array}{ccccc}
 0 & 0 & 0 & 0 & 0 \\
 0 & 1 & 2 & 1 & 0 \\
 0 & 2 & 4 & 2 & 0 \\
 0 & 1 & 2 & 1 & 0 \\
 0 & 0 & 0 & 0 & 0
 \end{array}
 *
 \begin{array}{ccc}
 1 & 0 & 0 \\
 0 & 0 & 0 \\
 0 & 0 & 1
 \end{array}
 \rightarrow
 \begin{array}{ccc}
 4 & 2 & 0 \\
 2 & 2 & 2 \\
 0 & 2 & 4
 \end{array}$$

+

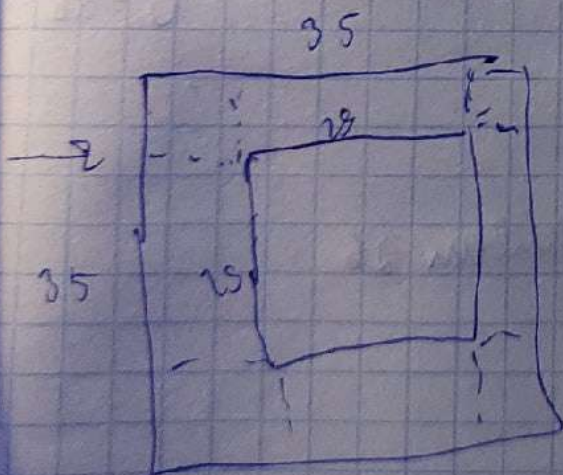
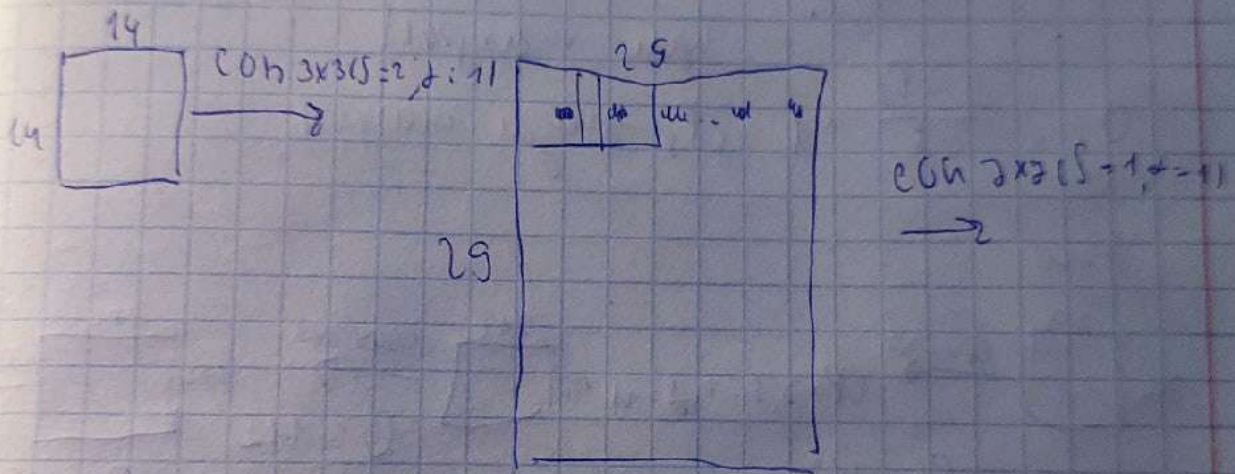
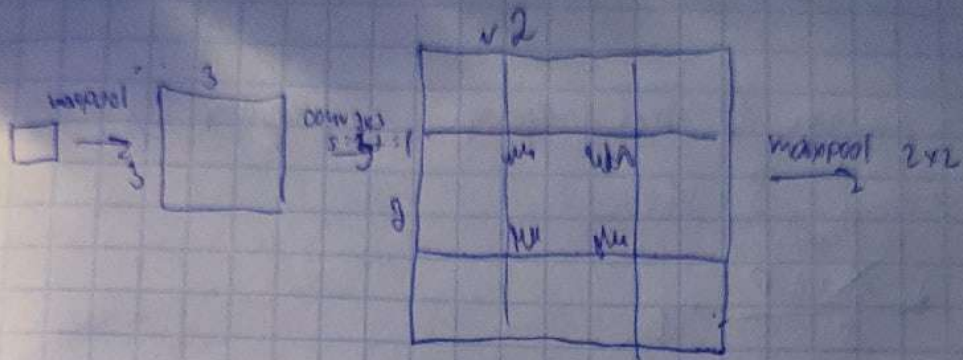
$$\begin{array}{ccccc}
 0 & 0 & 0 & 0 & 0 \\
 0 & -1 & 0 & 1 & 0 \\
 0 & 0 & 0 & 0 & 0 \\
 0 & 1 & 0 & -1 & 0 \\
 0 & 0 & 0 & 0 & 0
 \end{array}
 *
 \begin{array}{ccc}
 0 & 0 & -1 \\
 0 & 0 & 0 \\
 -1 & 0 & 0
 \end{array}
 \rightarrow
 \begin{array}{ccc}
 0 & 0 & 0 \\
 0 & -2 & 0 \\
 0 & 0 & 0
 \end{array}$$

+

$$\begin{array}{ccccc}
 0 & 0 & 0 & 0 & 0 \\
 0 & 0 & 1 & 0 & 0 \\
 0 & 1 & 2 & 1 & 0 \\
 0 & 0 & 1 & 0 & 0 \\
 0 & 0 & 0 & 0 & 0
 \end{array}
 *
 \begin{array}{ccc}
 1 & 0 & -1 \\
 0 & 0 & 0 \\
 0 & 0 & 0
 \end{array}
 \rightarrow
 \begin{array}{ccc}
 0 & 0 & 0 \\
 -1 & 0 & 1 \\
 -2 & 0 & 2
 \end{array}$$

Result :

$$\begin{array}{ccc}
 4 & 2 & 0 \\
 1 & 0 & 3 \\
 -2 & 2 & 6
 \end{array}$$



Output: $rs = 35$