$$f(x,y) \coloneqq \begin{cases} 1 \text{ if } \frac{x \cdot y}{2} \leq 0 \\ 2 \text{ if } x \text{ is even} \\ 3 \text{ if } x \in \mathbb{N} \\ 4 \text{ else} \end{cases}$$

$$(a+b)^2 = a^2 + 2ab + b^2$$

$$\sum_{\mathbf{v}=1}^{10} \frac{\mathbf{v}}{\mathbf{v}} = \mathbf{v}$$