

Class Exercise

Let $f : \mathbb{Z}^+ \times \mathbb{Z}^+ \rightarrow \mathbb{Z}^+$ be defined by

- ▶ $f(n, m) = n + m$ if $n = 1$ or $m = 1$,
- ▶ $f(n, m) = f(n - 1, m) + f(n, m - 1)$, otherwise

For this function f :

- ▶ Compute $f(i, j)$ for all i, j with $1 \leq i, j \leq 3$
- ▶ See if you can prove $f(i, j) \geq i + j$