## Inductive hypothesis, continued

## Recall that

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

We can't do induction on n because f(n, m) depends on f(n, m - 1).

We also can't do induction on m because f(n, m) depends on f(n-1, m).