

# Where's the answer?

$\text{OPT}(n,m)$  contains the edit distance between the two strings.

Why? By induction: EVERY cell contains the optimal edit distance between some prefix of string 1 with some prefix of string 2.

## Running Time

Number of entries in array =  $O(m \times n)$ , where  $m$  and  $n$  are the lengths of the 2 strings.

Filling in each entry takes constant  $O(1)$  time.

Total running time is  $O(mn)$ .