



(/en/),  
v1.1.0

CSD Testing System

(/en/)

# The turtle

Cost: 10 | Solved: 91

**Memory limit:** 256 MBs

**Time limit:** 1 s

**Input:** input.txt

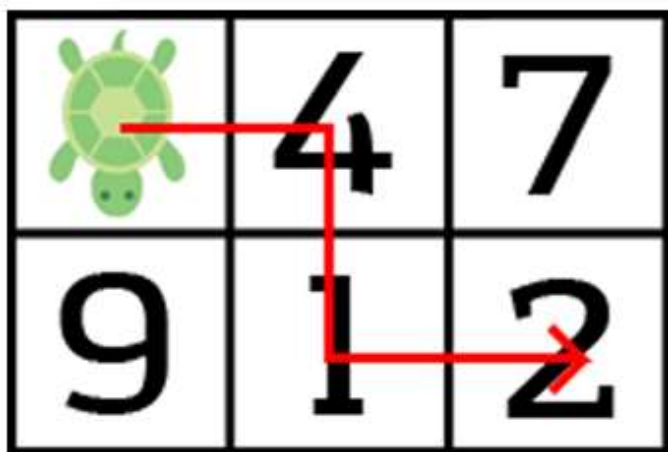
**Output:** output.txt

## Task:

There is a turtle in the upper-left corner of a glade of  $n$  rows and  $m$  columns and a certain amount of acid on each chunk of the glade. The turtle can move only down or to the right and its movement stops at the lower-right corner. Every 1 ml. of acid deals 1 damage to the turtle.

You have to find the minimal amount of damage that the turtle will take after a walk on the glade.

*Here's an example which shows the turtle's way. The minimal damage taken here is 7.*



## Input:

The first line contains two naturals  $n$  and  $m$  ( $1 \leq n, m \leq 10^3$ ) – the quantity of rows and columns of the glade.

The next  $n$  lines contain  $m$  numbers – the amount of ml. of acid on each chunk of the glade.

**Output:**

The least possible damage taken.

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**Example:**

Input	Output
3 4 5 9 4 3 3 1 6 9 8 6 8 12	35
1 1 1	1