



## Problem 2: Maze Cost

Source file: `mazecost.(cpp|java)`

Input file: `mazecost.in`

Output File: `mazecost.out`

Garden mazes (also known as labyrinths) have been a staple of the grounds and gardens of the wealthy for hundreds of years. Typically guests are asked to find their way from one side of the maze of hedges to the other. The cost to create a maze is determined by the number of hedge sections, path segments, and decorative additions that make up the maze.

The Committee for Standard Courses (CSC) regularly reviews popular mazes and would like to report the cost to develop each maze in its description. After some research, CCSC has determined that a section of hedge costs \$50, a path segment costs \$10, and a decorative addition costs \$500.

**Objective:** Given a description of a rectangular hedge maze, report the cost of creating it.

**Input file:** The first line will contain a positive integer that represents the number of data sets to process. The first line of each data set consists of 2 integers,  $m$  and  $n$ , that represent the number of rows ( $2 < m \leq 100$ ) and the number of columns ( $2 < n \leq 100$ ) in the maze. The next  $m$  lines contain strings of characters for each row of the maze, as shown below. Sections of a hedge are indicated by a capital 'X', path segments by a dash '-', and decorative additions by a plus sign '+'. The maze is always rectangular and the path is always a single continuous line.

**Output file:** Each data set should produce one integer on a single line of output indicating the cost of the maze. There should be no spaces or blank lines in the output file.

### Sample Input: (`mazecost.in`)

```
3
5 5
XXXXX
X+---
XX-XX
---+X
XXXXX
5 5
XXXXX
----X
XXX-X
X-X--
XXXXX
8 7
XXXXXXX
X+--X--
--X-X-X
XXX-X-X
-----+X
XXX+XXX
X+-----
XXXXXXX
```

### Sample Output: (`mazecost.out`)

```
1870
930
3800
```