

MINESWEEPER

CHALLENGE DESCRIPTION:

You will be given an M*N matrix. Each item in this matrix is either a '*' or a '.'. A '*' indicates a mine whereas a '.' does not. The objective of the challenge is to output a M*N matrix where each element contains a number (except the positions which actually contain a mine which will remain as '*') which indicates the number of mines adjacent to it. Notice that each position has at most 8 adjacent positions e.g. left, top left, top, top right, right, ...

INPUT SAMPLE:

Your program should accept as its first argument a path to a filename. Each line in this file contains M,N, a semicolon and the M*N matrix in row major form. E.g.

```
3,5;**.....*...
4,4;*.....*.....
```

OUTPUT SAMPLE:

Print out the new M*N matrix (in row major form) with each position(except the ones with the mines) indicating how many adjacent mines are there. E.g.

```
**100332001*100
*10022101*101110
```