



## Output Specification

For each game field, output  $N$  lines of strings of length  $E$ , showing whether Alice or Bob wins when the game starts from the given location. The  $j$ -th character on the  $i$ -th line should be “A” if Alice wins when starting from the position  $(j, i)$ , “B” if Bob wins, or “X” if the position contains an obstacle.

After each output, print one empty line.

## Sample Input

```
1 1
.
3 3
...
.X.
...
1 4
....
3 3
X.X
...
X.X
5 8
.....
.XX.XXX.
.X..X...
.X.XX.X.
.....
0 0
```

## Output for Sample Input

```
B

AAA
AXA
AAA

AAAA

XBX
BAB
XBX

BABABABA
AXXBXXXB
BxBAXABA
AXAXXBXB
BABABABA
```