

Oil Spill Area Problem

We want to measure globs of oil spills by calculating their area from satellite images. There could be multiple disconnected globs in a single image, so the area of interest is marked.

The input file **oil.txt** will contain a number of sets of input, each a RxC grid, where the first two values represent the size of the grid in rows and columns.

- # -- oil spill
- . -- water
- A -- marks the area of interest

The output will display the original grid and the corresponding number of oil globs.

Note: only up/down and left/right adjacent cells are connected. Diagonals are not.

Sample Input (oil.txt):

```
10
10
.....
.##.....
...#.....
....###...
....#A#...
....###...
.....
.....
.....
.....
.....
10
11
.....
...#####.
...#...#.
...#...#.
...###...
...##A#.#.
.....#...
.....##..
.....
##.....
##.....
```

Sample Output

Original Grids and Number of Oil Globes

```
.....
.##.....
...#.....
....###...
....#A#...
....###...
.....
.....
.....
.....
```

Start position for Oil Globes is row 5 column 6
Number of Oil Globes is 9

```
.....
...#####..
...#.....#..
...#.#.#.#..
...##A#.#..
.....#..
.....##..
.....
##.....
##.....
```

Start position for Oil Globes is row 5 column 6
Number of Oil Globes is 20