



Icy Perimeter: Problem Overview

Problem Statement:

Farmer John is going into the ice cream business! He has built a machine that produces blobs of ice cream. Each '.' character represents **empty space** and each '#' character represents **a 1×1 square cell of ice cream**. The machine might produce multiple disconnected blobs of ice cream. A blob of ice cream is connected if you can reach any ice cream cell from every other ice cream cell in the blob by repeatedly stepping to adjacent ice cream cells in the **north, south, east, and west** directions.

Objective:

Farmer John would like to find the **area** and **perimeter** of the blob of ice cream having **the largest area**. The area of a blob is just the number of '#' characters that are part of the blob. If multiple blobs **tie for the largest area**, he wants to know **the smallest perimeter** among them. At least one '#' character will be present.

Icy Perimeter: Input and Output

Input:

- The first line of input contains N .
- The next N lines describe the output of the machine.

Output:

One line containing two space-separated integers.

- The first being the area of the largest blob, and the second being its perimeter.
- If multiple blobs are tied for largest area, print the information for whichever of these has the smallest perimeter.

Sample Input:

```
6
##....
.....#
.#...#
.#####
...###
.....##
```

Sample Output:

```
13 22
```