

Consider a two-dimensional grid of cells, each of which may be empty or filled. Filled cells form blobs. The filled cells that are connected form the same bigger blob. Two cells are said to be connected if they are adjacent to each other horizontally, vertically, or diagonally. There may be several blobs on the grid. Your job is to find the largest blob (in terms of number of cells) on the grid.

Write a program that determines the size of the largest blob for a given set of blobs.

Input

The input begins with a single positive integer on a line by itself indicating the number of the cases following, each of them as described below. This line is followed by a blank line, and there is also a blank line between two consecutive inputs.

The grid is given as a set of strings, each composed of 0's and 1's. The '1' indicates that the cell is filled and '0' indicates an empty cell. The strings should be converted into the grid format.

The largest grid that could be considered is a 25×25 grid.

Output

For each test case, the output must follow the description below. The outputs of two consecutive cases will be separated by a blank line.

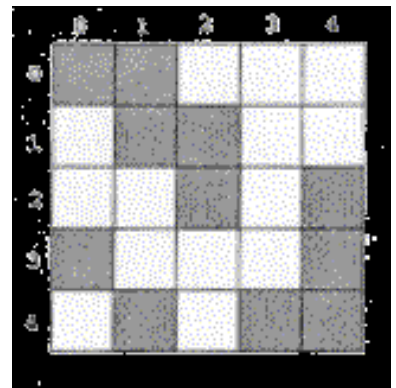
The output is the size of the largest blob found on the grid.

Sample Input

```
1
11000
01100
00101
10001
01011
```

Sample Output

```
5
```



The figure illustrates a grid with 3 blobs (the largest contains 5 cells).