

# Here Be Dragons

The Triwizard Tournament's third task is to negotiate a corridor of many segments, and reach the other end. The corridor is  $N$  segments long. The  $i$ th segment is either empty or has a dragon. Harry cannot pass the dragon and will have no option but to retreat if he encounters one. Is it possible for him to reach the exit starting from the entrance?

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## Input (STDIN):

The first line contains the number of test cases  $T$ .

Each of the next  $T$  lines contains a string describing the corridor. The  $i$ th character is either a '.' if the segment is empty, or a 'D' if the segment contains a dragon.

## Output (STDOUT):

Output  $T$  lines, each containing either the string "Possible" if you can reach the exit, and "You shall not pass!" if it is not possible to reach the exit.

## Constraints:

$$1 \leq T \leq 50$$

$$1 \leq N \leq 50$$

## Sample Input:

3

..

..D.

D..D

**Sample Output:**

Possible

You shall not pass!

You shall not pass!