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?

**Input**

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**

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!