Incorrect Regex

HackerRank

You are given a string S.

Your task is to find out whether S is a valid regex or not.

Input Format

The first line contains integer ${m T}$, the number of test cases. The next ${m T}$ lines contains the string ${m S}$.

Constraints

0 < T < 100

Output Format

Print "True" or "False" for each test case without quotes.

Sample Input

```
2
.*\+
.*+
```

Sample Output

```
True
False
```

Explanation

```
.*\+ : Valid regex.
```

.*+: Has the error multiple repeat. Hence, it is invalid.