Mismatched Brackets

문제   답안 제출   통계

문제 정보

문제 ID	시간 제한	메모리 제한	제출 횟수	정답 횟수 (비율)
BRACKETS2	1000ms	65536kb	10280	3065 (29%)

출제자	출처	분류
lewha0	Algospot 2주년 모의고사	보기

문제

Best White is a mathematics graduate student at T1 University. Recently, he finished writing a paper and he decided to polish it. As he started to read it from the beginning, he realized that some of the formulas have problems: some of the brackets are mismatched! Since there are so many formulas in his paper, he decided to check their validity with a computer program.

The following kinds of brackets are included in Best White's paper.

Round brackets are opened by a (and closed by a).
Curly brackets are opened by a { and closed by a }.
Square brackets are opened by a [and closed by a].

A formula is said well-matched when the following conditions are met:

1. Every bracket has a corresponding pair. (corresponds to), [corresponds to], et cetera.
2. Every bracket pair is opened first, and closed later.
3. No two pairs "*cross*" each other. For example, [(]) is not well-matched.

Write a program to help Best White by checking if each of his formulas is well-matched. To make the problem easier, everything other than brackets are removed from the formulas.

입력

The first line of the input will contain the number of test cases C ($1 \leq C \leq 100$). Each test is given in a single line as a character string. The strings will only include characters in "[](){}" (quotes for clarity). The length of the string will not exceed 10,000.

출력

For each test case, print a single line "YES" when the formula is well-matched; print "NO" otherwise. (quotes for clarity)

예제 입력

```
3
()()
({[}])
({}[(){}])
```

예제 출력

```
YES
NO
YES
```

노트

22개의 댓글이 있습니다.

Loading [MathJax]/extensions/MathZoom.js