



☆ Balanced Or Not?



Consider a string, *expression* consisting of the characters `<` and `>` only. We consider the string to be *balanced* if each `<` always appears *before* (i.e., to the left of) a corresponding `>` character (they do not need to be adjacent). Moreover, each `<` and `>` act as a unique pair of symbols and neither symbol can be considered as part of any other pair of symbols. For example, the strings `<<>>`, `<>`, and `<><>` are all *balanced*, but the strings `>>`, `<<>`, and `><><` are *unbalanced*.

To balance a string, we can replace any `>` character with `<>` at most *maxReplacement* times. Given an *expression* and the value of *maxReplacement*, can you turn an unbalanced string into a balanced one?

Complete the *balancedOrNot* function in the editor below. It has the following parameters:

1. An array of n strings, *expressions*, denoting the list of expressions to check.
2. An array of n integers, *maxReplacements*, where *maxReplacements_i* denotes the maximum number of replacements allowed when attempting to balance *expressions_i*.

The function must return an array of integers where each index i ($0 \leq i < n$) contains a *1* if *expressions_i* is balanced or a *0* if it is not.

Input Format

The first line contains an integer, n , denoting the size of *expressions*.

Each line i of the n subsequent lines (where $0 \leq i < n$) contains a string describing *expressions_i*.

The next line contains an integer, m , denoting the size of *maxReplacements*.

Each line i of the n subsequent lines (where $0 \leq i < n$) contains a string describing *maxReplacements_i*.

Constraints

- $1 \leq n \leq 10^2$
- $1 \leq \text{length of } \text{expressions}_i \leq 10^5$
- $0 \leq \text{maxReplacements}_i \leq 10^5$

Output Format

The function must return an array of integers where each index i ($0 \leq i < n$) contains a *1* if *expressions_i* is balanced or a *0* if it is not.

Sample Input 0



```
2
2
2
```

Sample Output 0

```
1
0
```

Explanation 0

We process $expressions = ["<>>>", "<>>>>"]$ and $maxReplacements = [2, 2]$ like so:

0. For string $<>>>$ with $maxReplacements_0 = 2$, it becomes balanced after two replacements: $<>>> \rightarrow <><>> \rightarrow <><><>$. Because the string was converted in $\leq maxReplacements_0$ replacements, we store a 1 in index 0 of our return array.
1. For string $<>>>>$ with $maxReplacements_1 = 2$, becomes balanced after three replacements: $<>>>> \rightarrow <><>>> \rightarrow <><><>> \rightarrow <><><><>$. Because the string was converted in $> maxReplacements_1$ replacements, we store a 0 in index 1 of our return array.

We then return the array $[1, 0]$ as our answer.

Sample Input 1

```
2
<>
<>><
2
1
0
```

Sample Output 1

```
1
0
```

Explanation 1

We process $expressions = ["<>", "<>><"]$ and $maxReplacements = [1, 0]$ like so:

0. For string $<>$ with $maxReplacements_0 = 1$, it is already balanced and needs no replacements. Because the string is balanced in $\leq maxReplacements_0$ replacements,



performing 0 replacements), so we store a 0 in index 1 of our return array.

We then return the array `[1, 0]` as our answer.

YOUR ANSWER

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The timer will pause up to 90 seconds for the tour.

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Original code

Java 7



```
1 ▶ import ↔;
6
7 public class Solution {
8
9 ▼ /*
10  * Complete the function below.
11  */
12
13 ▼ static int[] balancedOrNot(String[] expressions, int[]
maxReplacements) {
14
15
16 }
17
18
19 ▶ public static void main(String[] args) throws IOException{↔}
56 }
```

Line: 12 Col: 1

Run Code

Submit code & Continue

(You can submit any number of times)

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