

The Contest Contest 1 P1 - A Typical Codeforces Problem

Time limit: 1.0s **Memory limit:** 256M

You just came up with a problem to put on a rated contest! You've invited N testers to test the problem, numbered from 1 to N , each of whom will attempt the problem and then vote either YES or NO. In order for the problem to be approved, a **majority** (strictly greater than half) of the testers must vote YES. You already know how each tester will vote, but it may not be a majority.

However, you have a few tricks up your sleeve. In one move, you can select an interval $[l, r]$. Let c be the number of testers in that interval that vote YES. Then, you can change the vote of tester c to YES. Determine if you are able to force a majority of the testers to vote YES after making any number (possibly zero) of moves.

Constraints

$$2 \leq N \leq 10^6$$

Input Specification

The first line of input contains a single integer N , the number of testers.

The second line contains a string of length N consisting of Y or N characters. The i^{th} character is Y if the i^{th} tester votes YES and N if the i^{th} tester votes NO.

Output Specification

Output YES if you're able to force a majority of the testers to vote YES.

Otherwise, output NO.

Sample Input 1

```
4
YNNY
```

Sample Output 1

```
YES
```

Explanation for Sample 1

On the first move, we can select the interval $[1, 4]$ to get $c = 2$ and force tester 2 to vote .

The votes are now , which is a majority.

Sample Input 2

```
5
NYNNN
```

Sample Output 2

```
NO
```

Explanation for Sample 2

There are no sequences of moves that result in a majority of the testers voting .

Sample Input 3

```
3
YYN
```

Sample Output 3

```
YES
```

Explanation for Sample 3

A majority of the testers already vote , so no moves are necessary.