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PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

# A. ABC

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

Recently, the students of School 179 have developed a unique algorithm, which takes in a binary string s as input. However, they soon found out that if some substring t of s is a palindrome of length greater than 1, the algorithm will work incorrectly. Can the students somehow reorder the characters of s so that the algorithm will work correctly on the string?

A binary string is a string where each character is either 0 or 1.

A string a is a substring of a string b if a can be obtained from b by deletion of several (possibly, zero or all) characters from the beginning and several (possibly, zero or all) characters from the end.

A palindrome is a string that reads the same backwards as forwards.

#### Input

Each test contains multiple test cases. The first line contains the number of test cases t (  $1 \le t \le 100$ ). Description of the test cases follows.

The first line of each test case contains a single integer n ( $1 \le n \le 100$ ) — the length of the string s.

The second line of each test case contains the string s of length n consisting only of the characters 0 and 1.

## Output

For each test case, print YES (case-insensitive) if it is possible to reorder the characters of s so that there are no substrings that are a palindrome of length greater than 1, or NO (case-insensitive) otherwise.

#### Example



## Note

In the first three test cases, the given strings do not contain palindromes of length greater than 1, so the answers are YES.

# Codeforces Round #769 (Div. 2) Finished Practice

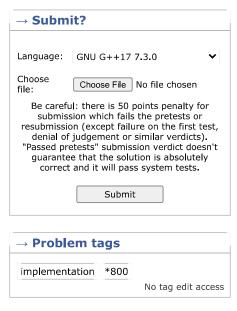
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In the last test case, it is impossible to reorder the characters so that the string does not contain palindromes of length greater than 1, so the answer is NO.

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