

Mark Points

There are N equi-spaced points numbered $1, 2, \dots, N$. Initially, all points are unmarked.

In one operation, you can choose X such that $1 < X < N$, and then mark points $X - 1, X, X + 1$. (If any of them were already marked, they do not get affected)

Finally, you will make a binary string S , where $S_i = 1$ if and only if you marked point i , and otherwise $S_i = 0$.

Now, you forgot what operations you did. You have a binary string S with you. You want to check if it is possible to obtain S by doing some of the above operations of marking points.

Print **Yes** if it is possible to obtain S and **No** otherwise.

Input Format

- The first line of input will contain a single integer T , denoting the number of test cases.
- Each test case consists of multiple lines of input.
 - The first line of each test case contains N - the number of points.
 - The second line contains S - a binary string.

Output Format

For each test case, output on a new line **Yes** if it is possible to obtain S and **No** otherwise.

Constraints

- $1 \leq T \leq 100$
- $3 \leq N \leq 100$
- $S_i \in \{0, 1\}$

Sample 1:

Input	Output
7	Yes
3	Yes
000	No
4	No
1111	Yes
5	No
00101	No
7	
0110111	
11	
11101110111	
4	
0011	
4	
1100	

Explanation: