

One Down

You are given two binary strings S and T , each of length N . You wish to convert S into T using the following operation any number of times (possibly zero):

- Choose two distinct indices i and j ($1 \leq i, j \leq N$, $i \neq j$) such that both $S_i = 1$ and $S_j = 1$, and change both to $S_i = 0$ and $S_j = 0$.

Determine whether it is possible to transform S into T by applying the above operation.

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 contains N - the length of the string.
 - The second line contains S - the initial string.
 - The third line contains T - the target string.

Output Format

For each test case, print a single line containing **Yes** if S can be converted to T , or **No** otherwise.

You may print each character of the string in uppercase or lowercase (for example, the strings **YES**, **yEs**, **yes**, and **yes** will all be treated as identical).

Constraints

- $1 \leq T \leq 10^4$
- $2 \leq N \leq 5$
- $|S| = |T| = N$
- $S_i \in \{0, 1\}$
- $T_i \in \{0, 1\}$

Sample 1:

Input	Output
5	Yes
2	No
11	No
00	Yes
2	No
11	
01	
2	
00	
11	
3	
111	
010	
2	
00	
11	

Explanation:

Test case 1: We can choose $i = 1$, $j = 2$ and convert $S_i = S_j = 1$ to get $S = 00$.