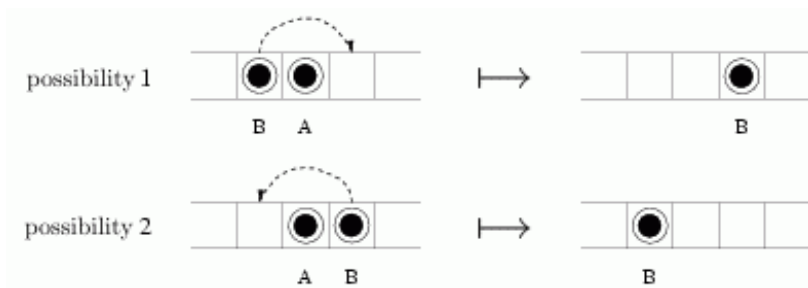


# The Loner

*The loner* is a one-dimensional board game for a single player. The board is composed of squares arranged in a single line, some of which initially have pawns on them. The player makes a move by jumping with a pawn over a pawn on an adjacent field, to an empty square two fields to the right or left of its initial position. The pawn that was jumped over is removed directly after the move, as illustrated below.



The game is considered won if exactly one pawn remains on the gaming board, and is lost if the player cannot make a move.

Given the initial state of the gaming board, your task is to determine whether it is possible for the player to win the game.

## Input

The input begins with the integer  $t$ , the number of test cases. Then  $t$  test cases follow.

Each test case begins with the positive integer  $n \leq 32000$ , denoting the size of the gaming board. The second and last line of the test case description contains a sequence of  $n$  characters 0 or 1, without any white spaces. The  $i$ -th square of the board is occupied by a pawn at the start of the game iff the  $i$ -th character of this sequence is 1.

## Output

For each test case output the word *yes* if it is possible for the player to win the game for the presented starting configuration, or the word *no* in the opposite case.

## Example

### Sample input:

```
2
7
0110011
6
111001
```

### Sample output:

```
yes
no
```