## Java 1D Array (Part 2)

Let's play a game on an array! You're standing at index 0 of an $n$-element array named game. From some index $i$ (where $0 \leq i<n$ ), you can perform one of the following moves:

- Move Backward: If cell $i-1$ exists and contains a 0 , you can walk back to cell $i-1$.
- Move Forward:
- If cell $i+1$ contains a zero, you can walk to cell $i+1$.
- If cell $i+l e a p$ contains a zero, you can jump to cell $i+l e a p$.
- If you're standing in cell $n-1$ or the value of $i+l e a p \geq n$, you can walk or jump off the end of the array and win the game.

In other words, you can move from index $i$ to index $i+1, i-1$, or $i+l e a p$ as long as the destination index is a cell containing a 0 . If the destination index is greater than $n-1$, you win the game.

## Function Description

Complete the canWin function in the editor below.
canWin has the following parameters:

- int leap: the size of the leap
- int game[n]: the array to traverse


## Returns

- boolean: true if the game can be won, otherwise false


## Input Format

The first line contains an integer, $q$, denoting the number of queries (i.e., function calls).
The $2 \cdot q$ subsequent lines describe each query over two lines:

1. The first line contains two space-separated integers describing the respective values of $n$ and leap.
2. The second line contains $n$ space-separated binary integers (i.e., zeroes and ones) describing the respective values of game $_{0}, g a m e_{1}, \ldots, g a m e_{n-1}$.

## Constraints

- $1 \leq q \leq 5000$
- $2 \leq n \leq 100$
- $0 \leq l e a p \leq 100$
- It is guaranteed that the value of game[0] is always 0 .


## Sample Input

```
STDIN
-----
q = 4 (number of queries)
3 game[] size n = 5, leap = 3 (first query)
0000 game=[0, 0, 0, 0,0]
5 game[] size n = 6, leap = 5 (second query)
0 0 1 1 1 . . .
3
0
1
1 0
```


## Sample Output

```
YES
YES
NO
NO
```


## Explanation

We perform the following $q=4$ queries:

1. For game $=[0,0,0,0,0]$ and leap $=3$, we can walk and/or jump to the end of the array because every cell contains a 0 . Because we can win, we return true.
2. For game $=[0,0,0,1,1,1]$ and leap $=5$, we can walk to index 1 and then jump $i+l e a p=1+5=6$ units to the end of the array. Because we can win, we return true.
3. For game $=[0,0,1,1,1,0]$ and leap $=3$, there is no way for us to get past the three consecutive ones. Because we cannot win, we return false.
4. For game $=[0,1,0]$ and leap $=1$, there is no way for us to get past the one at index 1 . Because we cannot win, we return false.
