Good Subsequence

A sequence B is called good if $B_i \mod 2 \neq B_{i-1} \mod 2$ for all $2 \leq i \leq |B|$. For example, [1,2,3] and [4] are good sequences, but [1,3] is not.

You are given an array A of length N. Find the length of the largest subsequence † of A that is good.

 † A subsequence is a sequence that can be formed by deleting some (possibly zero) elements from the array without changing the order. For example, [1,3],[2] and [1,2,3] are subsequences of [1,2,3] but [3,1] is not.

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.
- $\circ \;\;$ The first line of each test case contains a single integer N.
- \circ The second line contains N integers A_1,A_2,\ldots,A_N .

Output Format

For each test case, output on a new line the length of the largest good subsequence of A.

Constraints

- $1 \le T \le 100$
- $1 \le N \le 100$
- $1 \le A_i \le 100$

Sample 1:



Explanation:

Test Case 1: We can choose the subsequence [1, 2, 3] which is good.

Test Case 2: The entire sequence itself is good.