## Even Frequency

Kutus loves even number. Girl friend of kutus, name putus makes an interesting problem for kutus to testing his even number knowledge. Putus gives an integer array A , consisting of N number.

Putus asked Kutus to process the following three types of queries on this array accurately and efficiently.

- 0 XV : add V to the Xth element of array. i.e $\mathrm{AX}=\mathrm{AX}+\mathrm{V}$.
- 1 LR V : replace all the element in range L to R with V .
- 2 LR : Find out whether all elements frequency in the range $L$ to $R$ is/are even or not


## Input

Input start with an integer $T$, which denotes the number of test case. Each case contains 2 space separated integer $N$ and $Q$ denoting the size of array $A$ and the number of queries to be performed.

Next line contains $N$ space separated integers denoting the elements of array A. Each of the next Q lines of input contains a query having one of the mentioned three types. There will be no more than fifty update operation (type 0 \& type 1).

## Output

For each case print the case number and print the answer. If all elements frequency in the range $L$ to $R$ is/are even, then answer will be 'Yes' otherwise answer will be 'No'.

## Constraints:

$\mathrm{T}<=10$
$1<=\mathrm{N}<=100000$
$1<=Q<=100000$
$0<=\mathrm{Ai}, \mathrm{V}<=100000$
$1<=L<=R<=N$

## Example

## Input:

1
56
12232
223
051
225
215
1132
215

Output:
Case 1:
Yes
Yes
No
No

