

B. Odd Sum Segments

time limit per test: 3 seconds
 memory limit per test: 256 megabytes
 input: standard input
 output: standard output

You are given an array a consisting of n integers a_1, a_2, \dots, a_n . You want to split it into exactly k **non-empty non-intersecting subsegments** such that each subsegment has odd sum (i. e. for each subsegment, the sum of all elements that belong to this subsegment is odd). It is impossible to rearrange (shuffle) the elements of a given array. Each of the n elements of the array a must belong to exactly one of the k subsegments.

Let's see some examples of dividing the array of length 5 into 3 subsegments (not necessarily with odd sums): $[1, 2, 3, 4, 5]$ is the initial array, then all possible ways to divide it into 3 non-empty non-intersecting subsegments are described below:

- $[1], [2], [3, 4, 5]$;
- $[1], [2, 3], [4, 5]$;
- $[1], [2, 3, 4], [5]$;
- $[1, 2], [3], [4, 5]$;
- $[1, 2], [3, 4], [5]$;
- $[1, 2, 3], [4], [5]$.

Of course, it can be impossible to divide the initial array into exactly k subsegments in such a way that each of them will have odd sum of elements. In this case print "NO". Otherwise, print "YES" and **any** possible division of the array. See the output format for the detailed explanation.

You have to answer q independent queries.

Input

The first line contains one integer q ($1 \leq q \leq 2 \cdot 10^5$) — the number of queries. Then q queries follow.

The first line of the query contains two integers n and k ($1 \leq k \leq n \leq 2 \cdot 10^5$) — the number of elements in the array and the number of subsegments, respectively.

The second line of the query contains n integers a_1, a_2, \dots, a_n ($1 \leq a_i \leq 10^9$), where a_i is the i -th element of a .

It is guaranteed that the sum of n over all queries does not exceed $2 \cdot 10^5$ ($\sum n \leq 2 \cdot 10^5$).

Output

For each query, print the answer to it. If it is impossible to divide the initial array into exactly k subsegments in such a way that each of them will have odd sum of elements, print "NO" in the first line. Otherwise, print "YES" in the first line and **any** possible division of the array in the second line. The division can be represented as k integers r_1, r_2, \dots, r_k such that $1 \leq r_1 < r_2 < \dots < r_k = n$, where r_j is the right border of the j -th segment (the index of the last element that belongs to the j -th segment), so the array is divided into subsegments $[1; r_1], [r_1 + 1; r_2], [r_2 + 1; r_3], \dots, [r_{k-1} + 1, n]$. **Note that r_k is always n but you should print it anyway.**

Example

input

```
3
5 3
7 18 3 14 1
```

Codeforces Round #575 (Div. 3)

Finished

Practice



→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Practice

You are registered for practice. You can solve problems unofficially. Results can be found in the contest status and in the bottom of standings.

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

→ Submit?

Language: GNU G++11 5.1.0

Choose file: Browse...





Submit

→ Problem tags

constructive algorithms math

No tag edit access

→ Contest materials

- Announcement #1 (en) 
- Announcement #2 (ru) 
- Tutorial #1 (en) 
- Tutorial #2 (ru) 

```
5 4
1 2 3 4 5
6 2
1 2 8 4 10 2
```

output

Copy

```
YES
1 3 5
NO
NO
```

- Tutorial #3 (en)

[Codeforces](#) (c) Copyright 2010-2019 Mike Mirzayanov
The only programming contests Web 2.0 platform
Server time: Jul/24/2019 19:25:35^{UTC-7} (f1).
Desktop version, switch to [mobile version](#).
[Privacy Policy](#)

Supported by



ITMO UNIVERSITY