

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

F. The Lazy Author

time limit per test: 1 second
memory limit per test: 256 megabytes

Since the author of this problem is too lazy to write a problem statement, he will provide you with the problem sketch only.

You're given an array a of length n consisting of zeros and ones, and an integer k .

You can perform no more than n operations. In one operation, you take a range of length exactly k and flip its values, making every 0 a 1 and every 1 a 0.

More formally, in each operation you can choose a value l ($1 \leq l \leq n - k + 1$) then do the assignment $a_i := 1 - a_i$ for every i such that $l \leq i \leq l + k - 1$

Your task is to modify the array so that it contains no more than $\lfloor \frac{k}{2} \rfloor$ zeros.

Print the sequence of operations. If there are multiple answers, print any.

Input

The first line contains two integers, n and k , where $(1 \leq k \leq n \leq 10^6)$.

The second line contains n integers, a_i , where $(0 \leq a_i \leq 1)$.

Output

The first line contains a number, m , which represents the number of operations.

The second line contains m integers, which represent the left side of each range.

If there are multiple answers, you can print any.

Examples

input	Copy
3 2 1 0 1	
output	Copy
0	

input	Copy
4 2 0 0 0 0	
output	Copy
2 1 3	

Note

in the first test you don't need to do any operations.

in the second test you can just do operations in [1,2] and [3,4].

**Syrian Private Universities
Collegiate Programming Contest
2023**

Finished

Practice

★

→ About Contest



Syrian Private Universities
Programming Colligate Contest

→ 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 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

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

→ Submit?

Language: GNU G++20 13.2 (64 bit, win

Choose file: Choose File No file chosen

Submit

→ Last submissions

Submission	Time	Verdict
302687978	Jan/24/2025 05:27	Accepted
302687634	Jan/24/2025 05:21	Wrong answer on test 6
302687083	Jan/24/2025 05:11	Wrong answer on test 3
302686943	Jan/24/2025 05:08	Wrong answer on test 3
302686911	Jan/24/2025 05:07	Wrong answer on test 3
302686794	Jan/24/2025 05:04	Wrong answer on test 6
302686580	Jan/24/2025 05:00	Wrong answer on test 6