



HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING API HELP HONORCUP Z CALENDAR

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

B1. Social Network (easy version)

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

The only difference between easy and hard versions are constraints on n and k.

You are messaging in one of the popular social networks via your smartphone. Your smartphone can show at most k most recent conversations with your friends. Initially, the screen is empty (i.e. the number of displayed conversations equals 0).

Each conversation is between you and some of your friends. There is at most one conversation with any of your friends. So each conversation is uniquely defined by your friend.

You (suddenly!) have the ability to see the future. You know that during the day you will receive n messages, the i-th message will be received from the friend with ID id_i ($1 \le id_i \le 10^9$).

If you receive a message from id_i in the conversation which is currently displayed on the smartphone then nothing happens: the conversations of the screen do not change and do not change their order, you read the message and continue waiting for new messages.

Otherwise (i.e. if there is no conversation with id_i on the screen):

- Firstly, if the number of conversations displayed on the screen is k, the last conversation (which has the position k) is removed from the screen.
- ullet Now the number of conversations on the screen is guaranteed to be less than k and the conversation with the friend id_i is not displayed on the screen.
- ullet The conversation with the friend id_i appears on the first (the topmost) position on the screen and all the other displayed conversations are shifted one position down.

Your task is to find the list of conversations (in the order they are displayed on the screen) after processing all n messages.

Input

The first line of the input contains two integers n and k $(1 \le n, k \le 200)$ — the number of messages and the number of conversations your smartphone can show.

The second line of the input contains n integers id_1,id_2,\ldots,id_n ($1\leq id_i\leq 10^9$), where id_i is the ID of the friend which sends you the i-th message.

Output

In the first line of the output print one integer m ($1 \le m \le min(n,k)$) — the number of conversations shown after receiving all n messages.

In the second line print m integers $ids_1, ids_2, \ldots, ids_m$, where ids_i should be equal to the ID of the friend corresponding to the conversation displayed on the position i after receiving all n messages.

Examples

input	Сору
7 2	
1 2 3 2 1 3 2	

Codeforces Round #590 (Div. 3)

Finished

→ 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

→ Problem tags			
implementation	*1000		
		No tag edit access	

→ Contest materials	
Announcement #1 (en)	×
 Announcement #2 (ru) 	×
• Tutorial #1 (en)	×
• Tutorial #2 (ru)	×

1 of 2 11/1/19, 5:57 PM



Note

In the first example the list of conversations will change in the following way (in order from the first to last message):

- [1];
- [2,1]; [3,2];
- [3, 2];
- [1, 3];
- [1, 3];
- [2,1].

In the second example the list of conversations will change in the following way:

- [2]; [3, 2];
- [3, 2];
- [1, 3, 2];
- and then the list will not change till the end.

Codeforces (c) Copyright 2010-2019 Mike Mirzayanov The only programming contests Web 2.0 platform Server time: Nov/01/2019 17:55:14^{UTC-5} (e2). Desktop version, switch to mobile version. Privacy Policy

Supported by





2 of 2 11/1/19, 5:57 PM