



HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP 0

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

E. Exposition

time limit per test: 1.5 seconds memory limit per test: 64 megabytes

There are several days left before the fiftieth birthday of a famous Berland's writer Berlbury. In this connection the local library decided to make an exposition of the works of this famous sciencefiction writer. It was decided as well that it is necessary to include into the exposition only those books that were published during a particular time period. It is obvious that if the books differ much in size, the visitors will not like it. That was why the organizers came to the opinion, that the difference between the highest and the lowest books in the exposition should be not more than k

The library has *n* volumes of books by Berlbury, arranged in chronological order of their appearance. The height of each book in millimeters is know, it is h_i . As Berlbury is highly respected in the city, the organizers want to include into the exposition as many books as possible, and to find out what periods of his creative work they will manage to cover. You are asked to help the organizers cope with this hard task.

Input

The first line of the input data contains two integer numbers separated by a space $n (1 \le n \le 10^5)$ and k ($0 \le k \le 10^6$) — the amount of books by Berlbury in the library, and the maximum allowed height difference between the lowest and the highest books. The second line contains n integer numbers separated by a space. Each number h_i ($1 \le h_i \le 10^6$) is the height of the *i*-th book in millimeters.

Output

In the first line of the output data print two numbers a and b (separate them by a space), where ais the maximum amount of books the organizers can include into the exposition, and b — the amount of the time periods, during which Berlbury published a books, and the height difference between the lowest and the highest among these books is not more than k millimeters.

In each of the following b lines print two integer numbers separated by a space — indexes of the first and the last volumes from each of the required time periods of Berlbury's creative work.

Examples

4 5

8 19 10 13

input	Сору
3 3 14 12 10	
output	Сору
2 2 1 2 2 3	
input	Сору
2 0 10 10	
output	Сору
2 1 1 2	
input	Сору

Codeforces Beta Round 6 (Div. 2 Only)

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 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++23 14.2 (64 bit, ms ➤

Choose

Choose File No file chosen

Submit

→ Last submissions

Submission	Time	Verdict
324021359	Jun/12/2025 13:53	Accepted

→ Problem tags

binary search data structures dsu trees two pointers *1900 No tag edit access

→ Contest materials

- Codeforces Beta Round #6
- Tutorial #1 (ru) 30
- Tutorial #2 (en) 30

output	Сору
2 1	
3 4	

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The only programming contests Web 2.0 platform
Server time: Jun/12/2025 17:54:20^{UTC+7} (k1).

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