

Run Composition

Timelimit: 2 sec

Problem description

You are given a list of numbers in a fixed order. Decompose the list into runs consisting of strictly decreasing sublists. The numbers of runs must be as small as possible.

Example: The list is 10, 12, 9, 8, 7, 8, 9.

You can choose the runs

- 10, 8, 7
- 12, 9
- 9, 8

and it is not possible to find two runs that do the same job.

Input

A number n ($n < 10^7$) followed by n numbers a_i ($1 \leq a_i \leq 10^9$).

Output

A number m , the number of runs followed by m runs that are each encoded as follows:

First comes the length of the run as a single number and then the numbers of the run themselves.

If the number of runs is more than 100 then output only the number of runs, but omit the runs themselves.

Sample input/output

Input	Output
7 10 12 9 8 7 8 9	3 4 10 9 8 7 2 12 8 1 9