

D. Lizards and Basements 2

time limit per test: 2 seconds
memory limit per test: 64 megabytes

This is simplified version of the problem used on the original contest. The original problem seems to have too difficult solution. The constraints for input data have been reduced.

Polycarp likes to play computer role-playing game «Lizards and Basements». At the moment he is playing it as a magician. At one of the last levels he has to fight the line of archers. The only spell with which he can damage them is a fire ball. If Polycarp hits the i -th archer with his fire ball (they are numbered from left to right), the archer loses a health points. At the same time the spell damages the archers adjacent to the i -th (if any) — they lose b ($1 \leq b < a \leq 10$) health points each.

As the extreme archers (i.e. archers numbered 1 and n) are very far, the fire ball cannot reach them. Polycarp can hit any other archer with his fire ball.

The amount of health points for each archer is known. An archer will be killed when this amount is less than 0. What is the minimum amount of spells Polycarp can use to kill all the enemies?

Polycarp can throw his fire ball into an archer if the latter is already killed.

Input

The first line of the input contains three integers n, a, b ($3 \leq n \leq 10$; $1 \leq b < a \leq 10$). The second line contains a sequence of n integers — h_1, h_2, \dots, h_n ($1 \leq h_i \leq 15$), where h_i is the amount of health points the i -th archer has.

Output

In the first line print t — the required minimum amount of fire balls.

In the second line print t numbers — indexes of the archers that Polycarp should hit to kill all the archers in t shots. All these numbers should be between 2 and $n - 1$. Separate numbers with spaces. If there are several solutions, output any of them. Print numbers in any order.

Examples

input	Copy
3 2 1 2 2 2	
output	Copy
3 2 2 2	

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

→ Attention

The package for this problem was not updated by the problem writer or Codeforces administration after we've upgraded the judging servers. To adjust the time limit constraint, a solution execution time will be multiplied by 2. For example, if your solution works for 400 ms on judging servers, then the value 800 ms will be displayed and used to determine the verdict.

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 file: Choose File No file chosen

Submit

→ Last submissions

Submission	Time	Verdict
324015403	Jun/12/2025 13:02	Accepted




323856127	Jun/11/2025 09:33	Wrong answer on test 21
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→ **Problem tags**

brute force dp *2600

No tag edit access

→ **Contest materials**

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

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Server time: Jun/12/2025 17:03:42^{UTC+7} (k1).

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