



CSES Problem Set

Sum of Three Values

[TASK](#) | [SUBMIT](#) | [RESULTS](#) | [STATISTICS](#) | [TESTS](#) | [QUEUE](#)**Time limit:** 1.00 s **Memory limit:** 512 MB

You are given an array of n integers, and your task is to find three values (at distinct positions) whose sum is x .

Input

The first input line has two integers n and x : the array size and the target sum.

The second line has n integers a_1, a_2, \dots, a_n : the array values.

Output

Print three integers: the positions of the values. If there are several solutions, you may print any of them. If there are no solutions, print IMPOSSIBLE.

Constraints

- $1 \leq n \leq 5000$
- $1 \leq x, a_i \leq 10^9$

Example

Input:

4 8
2 7 5 1

Output:

1 3 4

Sorting and Searching

...	
Factory Machines	<input type="checkbox"/>
Tasks and Deadlines	<input type="checkbox"/>
Reading Books	<input type="checkbox"/>
Sum of Three Values	<input checked="" type="checkbox"/>
Sum of Four Values	<input type="checkbox"/>
Nearest Smaller Values	<input type="checkbox"/>
Subarray Sums I	<input type="checkbox"/>
Subarray Sums II	<input type="checkbox"/>
...	

Your submissions

2025-04-27 05:17:32	<input checked="" type="checkbox"/>
2025-04-27 05:17:14	<input checked="" type="checkbox"/>
2025-04-27 05:12:13	<input type="checkbox"/>
2025-04-27 05:10:50	<input checked="" type="checkbox"/>
2025-04-27 05:09:11	<input type="checkbox"/>
2025-04-27 05:07:24	<input type="checkbox"/>
2025-04-27 05:06:28	<input type="checkbox"/>
2025-04-27 04:59:10	<input type="checkbox"/>