



## CSES Problem Set

# Sum of Four Values

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**Time limit:** 1.00 s **Memory limit:** 512 MB

You are given an array of  $n$  integers, and your task is to find four 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 four 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

- $1 \leq n \leq 1000$
- $1 \leq x, a_i \leq 10^9$

### Example

Input:

8 15  
3 2 5 8 1 3 2 3

Output:

2 4 6 7

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### Your submissions