

Two Sum

time limit per test: 1 second (1 second for Python)
memory limit per test: 976.6 megabytes
input: standard input
output: standard output
points: 100 · problem code: twosum

You are given an array of integers and a target sum.
Find two distinct positions whose values add up to the target.
It is guaranteed that exactly one valid pair exists.

Input

The first line contains two integers n and $target$, the size of the array and the target sum.
The second line contains n integers: $a_1, a_2, \dots, a_n$.

Output

Print two space-separated integers i and j ($i < j$), the 1-indexed positions of a pair such that $a_i + a_j = target$.

Constraints

- $2 \leq n \leq 2 \cdot 10^5$
- $-10^9 \leq a_i \leq 10^9$
- $-2 \cdot 10^9 \leq target \leq 2 \cdot 10^9$
- Exactly one valid pair exists.

Example 1

Input

```
4 9
2 7 11 15
```

Output

```
1 2
```

Example 2

Input

```
5 6
3 2 4 8 10
```

Output

```
2 3
```

Example 3

Input

```
5 10
-1 4 9 11 2
```

Output

1 4