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## HASELEMENTSUM

Given an integer  $nnn$  and a list  $LLL$  of distinct integers, find whether or not there exist two distinct integers in the list that sum to  $nnn$ .

## Constraints

$$1 < n < 100001 \quad 1 < n < 100001 \quad 1 < \text{len}(L) < 5001 \quad 1 < \text{len}(L) < 5001 \quad 1 < \text{len}(L) < 500$$

## Input

An integer  $nnn$ , followed by an integer  $\text{len}(L)$ , followed by  $\text{len}(L)$  distinct integers representing the list  $LLL$ .

## Output

Two integers in increasing order summing to  $nnn$ , or the text `False` if no such integers exist.

## Sample input

4 3 1 3 4

## Sample output

1 3

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Test cases

Input	Output	Points	Timeout
4 3 1 3 4 1 3	0	0	100 ms
Hidden	Hidden	20	100 ms
Hidden	Hidden	20	100 ms
Hidden	Hidden	30	100 ms
Hidden	Hidden	30	200 ms

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Inspired by the "Ultra Cool Programming Contest Control Centre" by Sonny Chan.

Modified for CS 124 by [Neal Wu](#), with design help from Martin Camacho.

Further refined by [Nikhil Benesch](#).

Assignment Project Exam Help

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