
First pair with frequency sum over limit

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Given a sequence of integers we are interested in frequencies of the sums of consecutive number pairs. For instance, the sums of consecutive number pairs of the input sequence 5,7,6,5,8,4,5 are 12,13,11,13,12,9. Note that pair sums 12 and 13 have frequency two, and the first pair in the sequence achieving a frequency sum greater than one is 5,8. Write a program that given a limit k and a sequence of integers computes the first pair of consecutive numbers achieving a frequency sum greater than k . For instance, provided that k is one and given the previous input sequence the first pair achieving a frequency sum greater than k is 5,8.

Input

Input consists of a nonnegative integer k followed by a sequence of two or more integers.

Output

The first pair of consecutive numbers in the input sequence achieving frequency sum greater than k . If there is no such a pair, the message `not found` must be printed.

Sample input 1

```
1
5 7 6 5 8 4 5
```

Sample output 1

```
5 8
```

Sample input 2

```
2
5 7 6 5 8 4 5
```

Sample output 2

```
not found
```

Sample input 3

```
2
1 2 2 1 0 0 0 1 5 3 -3 -1 4
```

Sample output 3

```
3 -3
```

Problem information

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Generation : 2019-01-11 15:23:35

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