PLACEMENTS KEY’S

Coding Challenge #21 (Question)

Day - 11

Write a program to find the kth odd integer in a sequence of non-negative integers, and then call your function from main.

Your function should be according to the following declaration.

int find_odd(int k);

Input:

1. You are given the input in two lines.
2. The first line contains a positive integer k.
3. In the second line, you will be given a sequence of non-negative integers, terminated with -1. Please note that -1 is not part of the sequence.

Output:

If there are k odd numbers in the sequence, then output the kth odd number in the sequence. If there aren’t k odd numbers in the sequence, output -1.

Sample Input 0:

```
2

1 1 3 2 3 4 1 -1
```

Sample Output 0:

```
1
```

PLACEMENTS KEY'S

Coding Challenge #21 (Question Contd.)

Day - 11

Sample Input 1:

```
2

2 4 6 1 7 -1
```

Sample Output 1:

```
7
```

Sample Input 2:

```
3

2 4 6 18 -1
```

Sample Output 2:

```
-1
```

PLACEMENTS KEY'S

Coding Challenge #22 (Question)

Day - 11

In the question, you have to output the "moving average" of a sequence of non-negative numbers. The moving average is the sequence of averages of the last 2 entries. For the first number, no average is output.

For example , if the sequence of numbers is a1, a2, a3, a4, a5 then the 2-moving average is (a1+a2)/2, (a2+a3)/2, (a3+a4)/2, (a4+a5)/2.

Input:

The input is a sequence of non-negative floating point numbers, terminated by -1. Please note that -1 is not part of the sequence. There will be at least 3 numbers in the sequence.

Output:

You have to output the moving average of the sequence. The output should be printed correct to one digit after the decimal.

Sample input 0:

```
1 2 3 -1
```

Sample output 0:

```
1.5 2.5
```

Sample input 1:

```
4 6 2 -1
```

Sample output 1:

```
5.0 4.0
```