# Week 3: Assignment 3 - Question 1

## Find moving average

In this question, you have to output the "two moving average" of a sequence of non-negative numbers.

The two 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  $a_1, a_2, a_3, a_4, a_5$ The 2-moving average is  $\frac{(a_1+a_2)}{2}, \frac{(a_2+a_3)}{2}, \frac{(a_3+a_4)}{2}, \frac{(a_4+a_5)}{2}$ 

# Input

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The input is a sequence of non-negative numbers, terminated by a -1.

There will be at least 3 numbers in the sequence.

Note: The -1 is not part of the sequence. It is just to indicate that the input has ended.

## Output

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

Hint: Use the format specifier "%.1f" inside printf.

#### Sample Input 1

1324-1

## Sample Output 1

2.0 2.5 3.0

#### Explanation

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(1+3)/2 = 2

(3+2)/2 = 2.5

(2+4)/2 = 3