



# CodeCrunch

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## CS1010E Practice Exercise: Moving Average

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#### Moving Average

Given a sequence of values, the  $n$ -moving average is a new sequence obtained by taking averages of  $n$  values over the given sequence.

For example, given the sequence  $X=\{1, 2, 3, 4, 5\}$ ,

- the 2-moving average of  $X$  is  $\{(1+2)/2, (2+3)/2, (3+4)/2, (4+5)/2\}$
- the 3-moving average of  $X$  is  $\{(1+2+3)/3, (2+3+4)/3, (3+4+5)/3\}$

Write a program that reads in the value of  $n$  ( $1 \leq n \leq 10$ ) and outputs the  $n$ -moving average of the fix sequence

```
{4, 9, -7, 5, -8, -3, 0, 8, -9, 2}
```

There is no need to store the new sequence in an array.

#### Sample Runs

The following are sample runs of the program. User input is underlined. Ensure that the last line of output is followed by a newline character.

- Sample run #1:

```
Enter n: 2
The 2-moving average is:
6.500000
1.000000
-1.000000
-1.500000
-5.500000
-1.500000
4.000000
-0.500000
-3.500000
```

- Sample run #2:

```
Enter n: 3
The 3-moving average is:
2.000000
2.333333
-3.333333
-2.000000
-3.666667
1.666667
```

```
-0.333333
0.333333
```

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