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## FW: Moving Average

1 message

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From: Daily Byte

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To: William Ting

Subject: Moving Average

# The Daily Byte

### Good morning,

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Today's Byte

This question is asked by Microsoft. Design a class, MovingAverage, which contains a method,

next that is responsible for returning the moving average from a stream of integers.

Note: a moving average is the average of a subset of data at a given point in time.

Ex: Given the following series of events...

```
// i.e. the moving average has a capacity of 3. MovingAverage movingAverage = new MovingAverage(3); m.next(3) returns 3 because (3 / 1) = 3 m.next(5) returns 4 because (3 + 5) / 2 = 4 m.next(7) = returns 5 because (3 + 5 + 7) / 3 = 5 m.next(6) = returns 6 because (5 + 7 + 6) / 3 = 6
```

### MovingAverage class definition:

```
public class MovingAverage {
    // TODO: declare any instance variables you require.
 /**
  * Initializes a MovingAverage with a
  * capacity of `size`.
  */
 public MovingAverage(int size) {
   // TODO: initialize your MovingAverage.
 }
 /**
  * Adds `val` to the stream of numbers
  * and returns the current average of the numbers.
 public double next(int val) {
    // TODO: implement this method.
 }
}
```

Thanks, The Daily Byte

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