

Software Design I (CS 120)
Quiz 08: Tuesday, 22 November 2016

NAME _____

- (1) (*7 points*) The code below uses a method called `hasNegative()`; write that method below. The method must takes an array of integers as input, and return **true** if there is any negative number in the array; if the array is empty, or no negative values exist, it should return **false**. Thus, when the code below is run, we will see output as follows:

```
Array has negative values: true.  
Array has negative values: false.
```

```
int[] input = { 5, 2, -3, 4, 5 };  
boolean neg = hasNegative( input );  
System.out.println( "Array has negative values: " + neg );  
  
input = new int[0]; // empty array  
neg = hasNegative( input );  
System.out.println( "Array has negative values: " + neg );
```

- (2) (8 pts.) Write a method that creates a 2-dimensional array of integers, and then uses two loops, one nested inside the other, to fill that array with the first 10 multiples of the numbers 1 to 5. Specifically, your code should fill the array with the numbers as follows, row by row:

```
1 2 3 4 5 6 7 8 9 10
2 4 6 8 10 12 14 16 18 20
3 6 9 12 15 18 21 24 27 30
4 8 12 16 20 24 28 32 36 40
5 10 15 20 25 30 35 40 45 50
```

When the method is complete, it should **return** the array.
