

Software Design I (CS 120)  
Quiz 08: Tuesday, 18 April 2017

NAME \_\_\_\_\_

- (1) (*7 points*) The code below uses a method called `contains()`; write that method below. The method must take a `String` array, along with a single `String`, as input parameters, and return `true` if the single `String` is contained in the array; if the array is empty, or does not contain the input `String`, it should return `false`. Thus, when the code below is run, we will see output as follows:

```
Array contains "test": true
Array contains "test": false
```

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```
String[] input = { "This", "is", "a", "test" };
boolean con = contains( input, "test" );
System.out.println( "Array contains \"test\": " + con );

input = new String[0]; // empty array
con = contains( input, "test" );
System.out.println( "Array contains \"test\": " + con );
```

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- (2) (8 pts.) Write a method that creates a 2-dimensional array of integers, with 5 rows and 10 columns, and then uses two loops, one nested inside the other, to fill that array with the values:

```
1  0 -1 -2 -3 -4 -5 -6 -7 -8
2  1  0 -1 -2 -3 -4 -5 -6 -7
3  2  1  0 -1 -2 -3 -4 -5 -6
4  3  2  1  0 -1 -2 -3 -4 -5
5  4  3  2  1  0 -1 -2 -3 -4
```

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

**Note:** the method *does not* need to print out anything; rather, it should fill the array with the values shown, row-by-row, and column-by-column, before returning that array.

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