Question 1

Write a method called findAlternating that takes a string and returns true if the string contains any instance of two characters repeating

Example; "abab" returns true, "ababc" returns true, "abac" returns false, "ab" returns false

Question 2

Write a method called findMultiple that takes two ints (a and b) and returns true is b is a multiple of a

Question 3

Write a method called findRepeat to prompt the user for a string and return true if it contains more than one of the same character, otherwise return false

Question 4

Write a method called calcMedian to return the median of an int array (return NULL if there is no median)

Question 5

What is the output of the following code?

```
B. 1, 2, 3, 4, 5
1, 2, 6, 4, 5
```

- D. Compile error
- E. Runtime error

Question 6

What is the output of the following code?

- A. 12345
- B. 012345
- C. 123456
- D. Compile error
- E. Runtime error

Question 7

What does the following method do?

public static void mystery(){

- A. Prints false if there is more than one of the same character in S
- B. Prints false S has two consecutive characters that are the same
- C. Compile error
- D. Runtime error
- E. None of the above

Question 8

What is the output of the following code?

```
int arr1[][] = \{\{1,2,3\},\{4,5,6\}\};
int arr2[][] = arr1;
for (int i = 0; i < arr1.length; i++){
        for (int j = 0; j < arr1[0].length; j++){
                arr2[i][j] = arr1[j][i];
                System.out.print(arr2[i][j]);
        System.out.println();
}
    A. 123
        456
    B. 321
        654
    C. 142
        536
    D. Compile error
    E. Runtime error
```

Question 9

What is the output of the following code?

```
public class Ex{
    public static void main(String[] args){
        int[] arr = {1,2,3};
        pass(arr);
        printlt(arr);
    }
```

```
public static void pass(int[] arr){
                       for (int i = 0; i < arr.length; i++) {
                               arr[i] += 1;
                               arr[i] = arr[i] + 1;
                       }
               }
               public static void printlt(int[] arr){
                       for (int i = 0; i < arr.length; i++) {
                               System.out.print(arr[i] + ", ");
                       }
               }
       }
           A. 3, 4, 5,
           B. 2, 3, 4,
           C. 1, 2, 3,
           D. Compile error
           E. Runtime error
Question 10
        What is the output of the following code?
        public class Ex {
               static int a = 4;
               public static void process(){
                       a = 0;
               public static void main(String[] args) {
                       process();
                       System.out.println(a);
               }
       }
           A. 4
           B. 0
           C. Compile error
           D. Runtime error
           E. None of the above
```