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ICS 4U1
Mr. Cardoso
Monday, December 7, 2020

Homework - Section 8.1 (#1, 3-5) & 8.2 (#1-5)

Section 8.1:

- 1 a) marks
 b) marks[0]
 c) an integer value
 d) 20
 e) 0-19

- 3 a) `int[] votes = new int[5];`
 b) `boolean[] answers = new boolean[20];`
 c) `int[] familySize = new int[12];`

- 4 a) `double[] terms = {1.0/2, 2.0/3, 3.0/4, 4.0/5, 5.0/6, 6.0/7};`
 b) 6

- 5 a) 4.0
 b) 10.8
 c) 0-8
 d) `mass[3]`
 e) double
 f) 9

Section 8.2:

- 1 4
 0
 3

- 2 a) `for(int i = 0; i < sample.length; i++)`
 `sample[i] = 1;`

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b) int initialValue = sample[0];
    sample[0] = sample[sample.length-1];
    sample[sample.length-1] = initialValue;
c) for(int i = 0; i < sample.length; i++)
    sample[i] = Math.abs(sample[i]);
d) int sampleSum = 0;
    for(int i = 0; i < sample.length; i++)
        sampleSum += sample[i];
e) for(int i = 1; i < sample.length; i += 2)
    System.out.println(sample[i]);

3    double[] array = {1.2, 5.6, 4.3, 3.9, 11.4, 2.7};
    double max = 0;
    for(int i = 0; i < array.length; i++){
        if(array[i] > max){
            max = array[i];
        }
    }
    System.out.println(max);

4    double[] array1 = {1.2, 5.6, 4.3, 3.9, 11.4, 2.7};
    double[] array2 = {1.2, 5.6, 4.3, 3.9, 11.4, 2.7};
    boolean arraysMatch = array1.length == array2.length;
    for(int i = 0; i < array1.length; i++){
        arraysMatch = arraysMatch && (array1[i] == array2[i]);
    }
    System.out.println(arraysMatch);

```

```

1 import java.util.*;
2
3 class Exercise
4 {
5     public static void main(String[] args)
6     {
7         Scanner s = new Scanner(System.in);
8
9         System.out.println("What are the total # of scores: ");
10        int totalScores = s.nextInt();
11        int[] scores = new int[totalScores];
12        int[] countScores = new int[11];
13        int score = 0;
14        int totalSum = 0;
15        double average;
16
17        for(int i = 0; i < scores.length; i++){
18            System.out.println("Enter score out of 10 (negative to quit): ");
19            score = s.nextInt();
20            if(score < 0){
21                break;
22            }
23            if(score <= 10){
24                scores[i] = score;
25                countScores[score]++;
26            }
27        }
28
29        System.out.println("Score\t\t# of Occurrences");
30        for(int i = 0; i < scores.length; i++){

```

```

28        System.out.println("Score\t\t# of Occurrences");
29        for(int i = 0; i < scores.length; i++){
30            System.out.println(scores[i] + "\t\t" + countScores[scores[i]]);
31            totalSum += scores[i];
32        }
33
34        average = totalSum / (double)totalScores;
35        average = Math.round(average*10)/10.0;
36        System.out.println("AVERAGE = " + average);
37    }
38 }
39 }

```