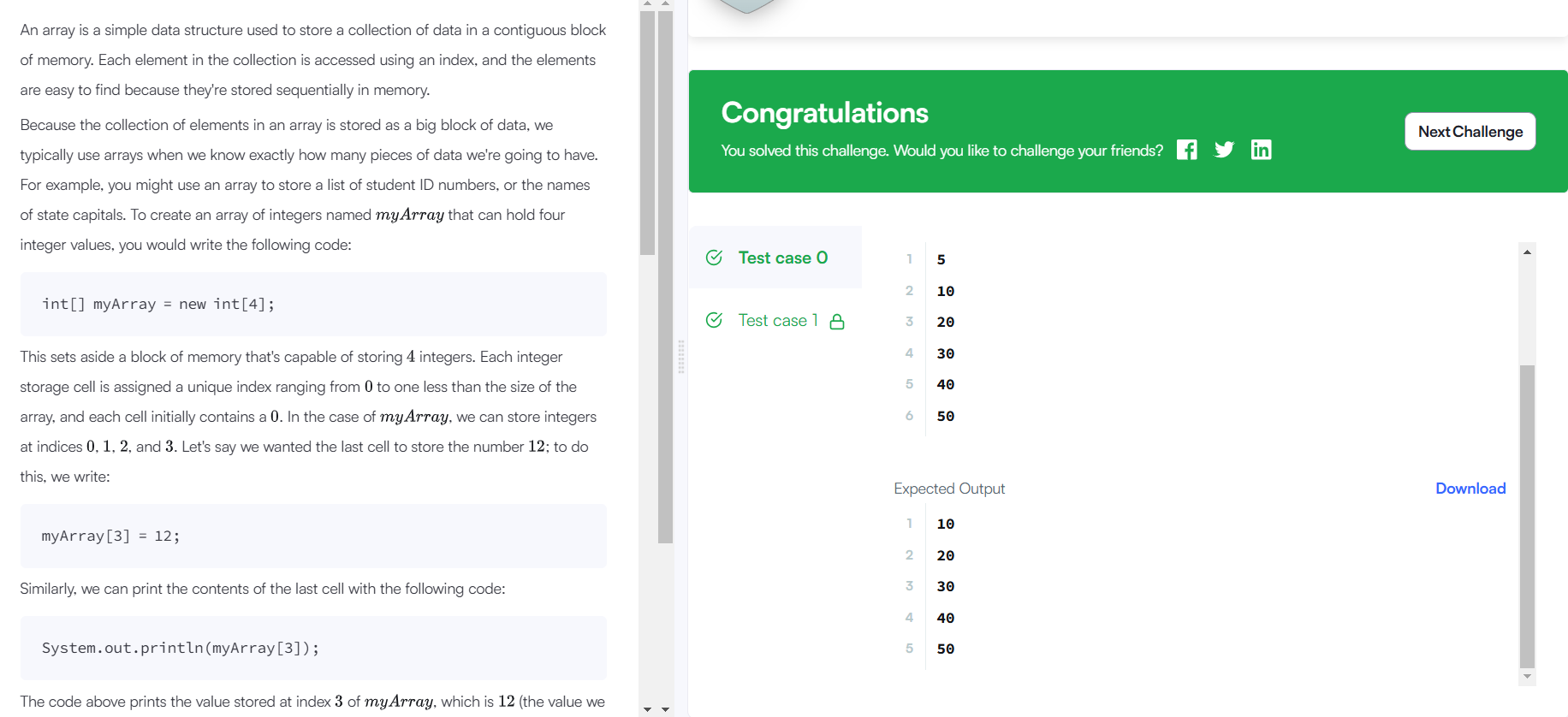
Cset Lecture 2 exercise part 2

1. A screenshot of a computer

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2. A screenshot of a computer

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3. import java.util.ArrayList;  
   import java.util.Collections;  
   import java.util.Scanner;  
     
   public class Main {  
    public static void main(String[] args) {  
    // A value guaranteed to be larger than any realistic substring  
     
    Scanner input = new Scanner(System.*in*);  
    ArrayList<String> subStr = new ArrayList<>();  
     
    System.*out*.println("Type in a string: ");  
    String str = input.nextLine();  
     
    System.*out*.println("The length of sub strings divisible by the string: ");  
    int lengthOfSubStr = input.nextInt();  
     
    int startIndex = 0;  
     
    for (int i = lengthOfSubStr; i <= str.length(); i += lengthOfSubStr) {  
    subStr.add(str.substring(startIndex, i));  
    startIndex = i;  
    }  
     
     
    Collections.*sort*(subStr);  
     
    System.*out*.println("Smallest: " + subStr.get(1) + ", Largest: " + subStr.getLast());  
    }  
   }
4. A screenshot of a computer

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5. import java.util.HashMap;  
   import java.util.Scanner;  
     
   public class Main {  
    public static void main(String[] args) {  
    Scanner input = new Scanner(System.*in*);  
     
    HashMap<Character, Integer> charCount = new HashMap<>();  
     
    System.*out*.println("Input first string: ");  
    String str1 = input.nextLine();  
     
    System.*out*.println("Input second string: ");  
    String str2 = input.nextLine();  
     
    if (str1.length() != str2.length()) {  
    System.*out*.println("Not anagram");  
    return;  
    }  
     
    for (int i = 0; i < str1.length(); i++) {  
    char char1 = str1.charAt(i);  
    charCount.put(char1, charCount.getOrDefault(char1, 0) + 1);  
    }  
     
    for (int i = 0; i < str2.length(); i++) {  
    char char2 = str2.charAt(i);  
    if (charCount.containsKey(char2)) {  
    charCount.put(char2, charCount.get(char2) - 1);  
    }  
    }  
     
    boolean isAnagram = true;  
     
    for (int count : charCount.values()) {  
    if (count != 0) {  
    isAnagram = false;  
    break;  
    }  
    }  
     
    if (isAnagram) {  
    System.*out*.println("Anagram");  
    } else {  
    System.*out*.println("Not anagram");  
    }  
    }  
   }
6. 

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