

Question - 1 Implementation

SCORE: 30 points

(An anagram is a word or phrase formed by rearranging the letters of a different word or phrase, using all the original letters exactly once.)

Given two strings s and t, write a function to determine if t is an anagram of s.

For example,

```
s = "anagram", t = "nagaram", return true.
s = "rat", t = "car", return false.
```

Note:

You may assume the string contains only lowercase alphabets.

Hint:

- 1. There is $\mathbf{O}(n)$ solution for this question but your algorithm doesn't have to be $\mathbf{O}(n)$ as long as you can pass the test cases.
- 2. You may find to CharArray() and charAt() methods in String Class useful.
- 3. You may sort the characters in the given Strings to solve this problem.

Question - 2 Polymorphism

SCORE: 5 points

What are the results of the following code snippet?

```
class A {
 int value = 1;
 int getValue(){
     return value;
  }
 String outPrint(){
     return "Class A";
class B extends A{
  int value = 2;
  int getValue(){
      return value;
  String outPrint(){
      return "Class B";
class Test{
 public static void main(String[] args){
   A \circ = new B();
```



<pre>System.out.println(o.outPrint());</pre>	
}	
}	
<u> </u>	
2	
Class A	
Class B	
Question - 3	SCORE: 5 points
Sorting	
As a developer of your company, you are asked to implement sorting	
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Given an array in reverse order [6, 5, 4, 3, 2, 1], what are the steps in selection sort?

154326, 124356, 123456

- 354621,324651,321654,123456 564321,456321,345621,234561,123456
- 654312,654123,651234,612345,123456