Name

Given the following code, write what is written out to the file. Write ERROR (notice caps) if it the code won't compile or run for any reason.

```
public static void main(String[] args) {
   PrintWriter writer = new PrintWriter(new File("output.txt"));
   writer.print("This");
   writer.print("is");
   writer.print("a");
   writer.print("single");
   writer.print("line");
   writer.close();
 }
Mark the following resources that a Scanner can read.
      System.in
      Any InputStream (as defined by the Java InputStream class)
      Any OutputStream (as defined by the Java OutputStream class)
      FileOutputStream
      String
      PrintWriter
      File
      System.out
      FileInputStream
Given the following code, what is printed?
 private static void initialSwap(int[] arr) {
  int x = 0;
   for(int i = 0; i < arr.length; i++)</pre>
      if (arr[x] < arr[i]) x = i;
   int tmp = arr[x];
  arr[x] = arr[0];
  arr[0] = tmp;
  System.out.println(arr[0]);
 public static void main(String[] args) {
   int[] arr = { 3, 3, 2, 8, 5, 0};
   initialSwap(arr);
public static RoseColor getColor(String meaning) {
        RoseColor rtn;
        switch (meaning.toLowerCase()) {
             case "purity":
                 rtn = RoseColor.WHITE;
                 break;
             case "jealousy":
             case "friendship":
                 rtn = RoseColor.YELLOW;
                 break;
             case "sincerity":
                 rtn = RoseColor.PEACH;
                 break;
             case "elegance":
                 rtn = RoseColor.PINK;
                 break;
             case "passion":
                rtn = RoseColor.RED;
```

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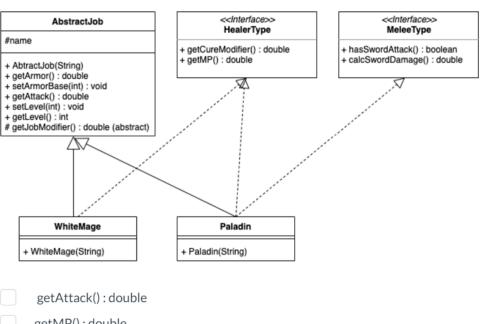
<pre>default:           rtn = RoseColor.BLACK; } return rtn; }</pre>
J
Which case(s) will return RoseColor.RED  elegance uniqueness passion sincerity
friendship jealousy purity love none listed
<ul> <li>Given the follow inheritance structure</li> <li>Rectangle extends Shape</li> <li>Square extends Rectangle</li> <li>Triangle extends Shape</li> </ul>
Given the following code:
<pre>Shape a = new Shape (); Rectangle b = new Rectangle (); Triangle c = new Triangle (); Square d = new Square ();  Which of the assignment statement(s) would cause an error? (hint: draw it out! - notice, no casting)</pre>
a = b; a = c; None will create an error a = d; d = c; b = c; b = a; d = b; b = d;
What is the output of the following code?
public static String stringManipulator(String str) {

```
if (str.isEmpty()) return str;
  return stringManipulator(str.substring(1)) + str.charAt(0);
}

public static void main(String[] args) {
   System.out.println(stringManipulator("183"));
}
```

Name\_\_\_\_\_

Given the following UML design, which methods are \*required\* to be implemented in WhiteMage before the program will compile. Select all that are possible.



getAttack(): double
getMP(): double
getLevel(): int
calcSwordDamage(): double
getCureModifier(): double
getJobModifier(): double
hasSwordAttack(): boolean
a unique constructor
setLevel(int): void
getArmor(): double

setArmorBase(int): void