**QUESTION 1**

1. A stack is a container that allows elements to be stored and removed

|  |  |  |
| --- | --- | --- |
|  |  | last-in-last-out fashion |
|  |  | in a first-in-first-out fashion |
|  |  | in a last-in-first-out fashion |
|  |  | according to priority |
|  |  |  |

**QUESTION 2**

1. In order for an object to be serialized, its class must implement this interface.

|  |  |  |
| --- | --- | --- |
|  |  | Serial |
|  |  | Serializable |
|  |  | ObjectOutputStream |
|  |  | Writable |

**QUESTION 3**

1. In the following code, assume that inputFile references a Scanner object that has been successfully used to open a file:  
     
   double totalIncome = 0.0;  
   while (inputFile.hasNext())  
   {  
     try  
     {  
     totalIncome += inputFile.nextDouble();  
     }  
     catch(InputMismatchException e)  
     {  
     System.out.println("Non-numeric data encountered " +  
     "in the file.");  
     inputFile.nextLine();  
     }  
     finally  
     {  
     totalIncome = 35.5;  
     }  
   }  
     
   What will be the value of totalIncome after the following values are read from the file?   
   2.5  
   8.5  
   3.0  
   5.5  
   abc  
   1.0

|  |  |  |
| --- | --- | --- |
|  |  | 35.5 |
|  |  | 19.5 |
|  |  | 0.0 |
|  |  | 75.0 |
|  |  |  |

**QUESTION 4**

1. The stack pop operation

|  |  |  |
| --- | --- | --- |
|  |  | removes all items currently on the stack |
|  |  | does not exist: There is no such stack operation |
|  |  | removes from the stack the number of elements specified by its integer parameter |
|  |  | extracts one element from the stack and returns it |

**QUESTION 5**

1. What is wrong with the following code?  
     
   public class ClassB extends ClassA  
   {  
     public ClassB()  
     {  
     int init = 10;  
     super(40);  
     }  
   }

|  |  |  |
| --- | --- | --- |
|  |  | The call to the method super must be the first statement in the constructor |
|  |  | The method super is not defined |
|  |  | Nothing is wrong with the code |
|  |  | No values may be passed to super |

**QUESTION 6**

1. What would be the results after the following code was executed?  
     
   int[] x = {23, 55, 83, 19};  
   int[] y = {36, 78, 12, 24};  
   x = y;  
   y = x;

|  |  |  |
| --- | --- | --- |
|  |  | x[] = {23, 55, 83, 19} and y[] = {23, 55, 83, 19} |
|  |  | x[] = {36, 78, 12, 24} and y[] = {23, 55, 83, 19} |
|  |  | This is a compilation error |
|  |  | x[] = {36, 78, 12, 24} and y[] = {36, 78, 12, 24} |
|  |  |  |

**QUESTION 7**

1. When deserilizing an object using the readObject method, you must cast the return value to the desired class type.

 True

 False

**QUESTION 8**

1. Which of the following is true about protected access?

|  |  |  |
| --- | --- | --- |
|  |  | Protected members may be accessed by methods in the same package or in a subclass, but only if the subclass is in the same package |
|  |  | Protected members may be accessed by methods in the same package or in a subclass, even when the subclass is in a different package |
|  |  | Protected members cannot be accessed by methods in any other classes |
|  |  | Protected members are actually named constants |

**QUESTION 9**

1. Which of the following statements correctly specifies three interfaces

|  |  |  |
| --- | --- | --- |
|  |  | public class ClassA implements Interface1 Interface2 Interface3 |
|  |  | public class ClassA implements (Interface1, Interface2, Interface3) |
|  |  | public class ClassA implements Interface1, Interface2, Interface3 |
|  |  | public class ClassA implements [Interface1, Interface2, Interface3] |
|  |  |  |

**QUESTION 10**

1. You can use this ArrayList class method to insert an item at a specific location in an ArrayList.

|  |  |  |
| --- | --- | --- |
|  |  | add |
|  |  | insert |
|  |  | store |
|  |  | putItem |