Q [ ] of 60 QID : com.enthuware.jcpa.v8.2.435 ?

Hide Section/Toughness Mark

Which of these expressions will obtain the substring "456" from a string defined by `String str = "01234567"`?

Please select 1 option

- `str.substring(4, 7)`
- `str.substring(4)`
- `str.substring(3, 6)`
- `str.substring(4, 6)`
- `str.substring(4, 3)`

Add Note

Q 2 of 60 QID : com.enthuware.jfcja.v8.2.337 ?

Hide Section/Toughness Mark

What will be the output of the following lines ?

```
System.out.println("" +5 + 6);   //1
System.out.println(5 + "" +6);   // 2
System.out.println(5 + 6 +"");   // 3
System.out.println(5 + 6);       // 4
```

Please select 1 option

- 56, 56, 11, 11
- 11, 56, 11, 11
- 56, 56, 56, 11
- 56, 56, 56, 56
- 56, 56, 11, 56

Add Note

Consider the following method...

```
public int setVar(int a, int b, float c) {
   //valid code not shown
}
```

Which of the following methods correctly overload the above method ?

Please select 2 options

```
public int setVar(int a, float b, int c)
{
  return setVar(a, c, b);
}
```

```
public int setVar(int a, float b, int c)
{
  return this(a, c, b);
}
```

```
public int setVar(int x, int y, float z)
{
  return x+y;
}
```

```
public float setVar(int a, int b, float c)
{
  return c*a;
}
```

```
public float setVar(int a)
{
  return a;
}
```

Add Note

Given the code fragment:

```
int[] balances1 = new int[]{ 10, 20 };
int[] balances2 = { 100 };
balances2 = balances1;
System.out.print(balances1.length+" "+balances2.length);
```

What is the result?

Please select 1 option

- 2 1
- 2 2
- 1 2
- 1 1
- Exception at run time.

Add Note

Q 5 of 60 QID : com.enthuware.jfcja.v8.2.370 ? Hide Section/Toughness Mark

Given the following line of code:

```
List students = new ArrayList();
```

Identify the correct statement:

Please select 1 option

- The reference type is List and the object type is ArrayList.
- The reference type is ArrayList and the object type is ArrayList.
- The reference type is ArrayList and the object type is List.
- The reference type is List and the object type is List.

Add Note

Q 5 of 60 QID : com.enthuware.jfcja.v8.2.291 ?

Hide Section/Toughness Mark

What will the following code print?

```
int i = 0;
int j = 1;
if( (i++ == 0) && (j++ == 2) )
{
   i = 12;
}
System.out.println(i+" "+j);
```

Please select 1 option

- 1 2
- 2 3
- 12 2
- 12 1
- It will not compile.

Add Note

Which of the following are correct ways to initialize the static variables MAX and CLASS_GUID ?

```
class Widget
{
   static int MAX;     //1
   static final String CLASS_GUID;   // 2
   Widget()
   {
       //3
   }
   Widget(int k)
   {
       //4
   }
}
```

Please select 2 options

Modify lines //1 and //2 as :
```
static int MAX = 111;
static final String CLASS_GUID = "XYZ123";
```

Add the following line just after //2 :
```
static {  MAX = 111; CLASS_GUID = "XYZ123"; }
```

Add the following line just before //1 :
```
{ MAX = 111; CLASS_GUID = "XYZ123"; }
```

Add the following line at //3 as well as //4 :
```
MAX = 111; CLASS_GUID = "XYZ123";
```

Only option 3 is valid.

Add Note

Which of these assignments are valid?

Please select 3 options

```
short s = 12 ;
```

```
long g = 012 ;
```

```
int i = (int) false;
```

```
float f = -123 ;
```

```
float d = 0 * 1.5 ;
```

Add Note

Consider the following program :

```
class Test
{
  public static void main(String[] args)
  {
    short s = 10; // 1
    char c = s; // 2
    s = c; // 3
  }
}
```

Identify the correct statements.

See Hint

Please select 2 options

- Line 3 is not valid.
- Line 2 is not valid.
- It will compile because both short and char can hold 10.
- None of the lines 1, 2 and 3 is valid.

Add Note

Which line will print the string "MUM"?

```
public class TestClass
{
   public static void main(String args [])
   {
        String s = "MINIMUM";
        System.out.println(s.substring(4, 7)); //1
        System.out.println(s.substring(5)); //2
        System.out.println(s.substring(s.indexOf('I', 3))); //3
        System.out.println(s.substring(s.indexOf('I', 4))); //4
    }
}
```

See Hint

Please select 1 option

1

2

3

4

None of these.

Add Note

Q 11 of 60 QID : com.enthuware.jfcja.v8.2.454 ?

Hide Section/Toughness Mark

While compiling a java file you want the compiler to generate the class file in a particular directory. Which javac option will you use?

Please select 1 option

-dest

-d

-target

-output

Add Note

What will be the result of attempting to compile and run the following class?

```
public class TestClass
{
    public static void main(String args[ ] )
    {
       int i = 1;
       int[] iArr = {1};
       incr(i) ;
       incr(iArr) ;
       System.out.println( "i = " + i + "  iArr[0] = " + iArr [ 0 ] ) ;
    }

    public static void incr(int   n ) { n++ ; }

    public static void incr(int[ ] n ) { n [0]++ ; }
}
```

See Hint

Please select 1 option

- The code will print i = 1 iArr[0] = 1
- The code will print i = 1 iArr[0] = 2
- The code will print i = 2 iArr[0] = 1
- The code will print i = 2 iArr[0] = 2
- The code will not compile.

Add Note

Q 13 of 60 QID : com.enthuware.jfcja.v8.2.412 ? Hide Section/Toughness Mark

Which of the following is correct about Java byte code?

Please select 1 option

- It can run on any OS and chip architecture.
- It can run on any OS and chip architecture if there is a JRE available for that OS and chip architecture.
- It can run only any OS and chip architecture if that platform has a JRE built for it and the Java code was compiled ON that platform.
- It can run only any OS and chip architecture if that platform has a JRE built for it and the Java code was compiled FOR that platform.

Add Note

Java ME can be used to develop applications for:

Please select 1 option

- Desktop applications that can handle human interaction.
- Embedded applications for Raspberry Pi.
- Personalized applications for smart phones.
- Back end/server side.

Add Note

Given the following declaration, select the correct way to get the size of the array, assuming that the array has been initialized.

```
int[] intArr;
```

Please select 1 option

- `intArr[ ].length( )`
- `intArr.length( )`
- `intArr.length`
- `intArr[ ].size( )`
- `intArr.size( )`

Add Note

Q 16 of 60 QID : com.enthuware.jfcja.v8.2.218 ?

Hide Section/Toughness Mark

Which of these expressions will return true?

Please select 4 options

- `"hello world".equals("hello world")`
- `"HELLO world".equalsIgnoreCase("hello world")`
- `"hello".concat(" world").trim().equals("hello world")`
- `"hello world".compareTo("Hello world") < 0`
- `"Hello world".toLowerCase( ).equals("hello world")`

Add Note

Given:

```
int a = 5,  b = 2, c = 30;
System.out.println( a-- * c / b  );
```

What is the result?

See Hint

Please select 1 option

- 50
- 60
- 75
- 0
- Compilation failure
- Exception at run time

Add Note

You are writing a class that represents the equation of a straight line:
`y = mx + c;`
This class has only one method named `calcY` that takes the value of x and returns the value of y.
Which variable scopes will you use to store the values of `m` and `c` in an instance of this class?

Please select 1 option

- global variables
- static variables
- instance variables
- local variables

Add Note

What will the following code print?

```
public class BreakTest
{
  public static void main(String[] args)
  {
    int i = 0, j = 5;
    lab1 : for( ; ; i++)
    {
      for( ; ; --j)  if( i >j ) break lab1;
    }
    System.out.println(" i =" + i + " , j = " + j);
  }
}
```

See Hint

Please select 1 option

i = 1, j = -1

i = 1, j = 4

i = 0, j = 4

i = 0, j = -1

It will not compile.

Add Note

Q 20 of 60 QID : com.enthuware.jfcja.v8.2.222 ?

Hide Section/Toughness Mark

What is the result of executing the following fragment of code:

```
boolean b1 = false;
boolean b2  = false;
if (b2 = b1 == false)
{
   System.out.println("true");
} else
{
   System.out.println("false");
}
```

Please select 1 option

- Compile time error.
- It will print true;
- It will print false;
- Runtime error.
- It will print nothing.

Add Note

Given:

```
package strings;
public class StringFromChar {

    public static void main(String[] args) {
        String myStr = "good";
        char[] myCharArr = {'g', 'o', 'o', 'd' };

        String newStr = null;
        for(char ch : myCharArr){
            newStr = newStr + ch;
        }

        System.out.println((newStr == myStr)+ " " + (newStr.equals(myStr)));

    }
}
```

What will it print when compiled and run?

Please select 1 option

- true true
- true false
- false true
- false false

Add Note

Q 22 of 60 QID : com.enthuware.ifcja.v8.2.226 ?

Hide Section/Toughness Mark

Which of the following correctly declare a variable which can hold an array of 10 integers?

Please select 2 options

- int[ ] iA
- int[10] iA
- int iA[ ]
- Object[ ] iA
- Object[10] iA

Add Note

What is the effect of compiling and running this class ?

```
public class TestClass
{
   public static void main (String args [])
   {
      int sum = 0;
      for (int i = 0, j = 10; sum > 20; ++i, --j)      // 1
      {
         sum = sum+ i + j;
      }
      System.out.println("Sum = " + sum);
   }
}
```

See Hint

Please select 1 option

- Compile time error at line 1.
- It will print Sum = 0
- It will print Sum = 20
- Runtime error.
- None of the above.

Add Note

Q 24 of 60 QID : com.enthuware.ifcja.v8.2.424 ?

Hide Section/Toughness Mark

What will the following statement print?

```
System.out.printf("This is %s %s", "what", "it", "is");
```

Please select 1 option

- `This is what it`
- `This is it is`
- Exception will be thrown at run time because the number of arguments and the number of format specifiers in the input string do not match.
- Compilation failure

Add Note

Q 25 of 60 QID : com.enthuware.jfcja.v8.2.332 ?

Hide Section/Toughness Mark

Which of the following statements are valid ?

Please select 2 options

```
String[ ] sa = new String[3]{ "a", "b", "c"};
```

```
String sa[ ] = { "a", "b", "c"};
```

```
String sa = new String[ ]{"a", "b", "c"};
```

```
String sa[ ] = new String[ ]{"a", "b", "c"};
```

```
String sa[ ] = new String[ ] {"a" "b" "c"};
```

Add Note

Q 26 of 60 QID : com.enthuware.jfcja.v8.2.281 ?

Hide Section/Toughness Mark

What is the result of executing the following code when the value of i is 5:

```
switch (i)
{
    default:
    case 1:
        System.out.println(1);
    case 0:
        System.out.println(0);
    case 2:
        System.out.println(2);
        break;
    case 3:
        System.out.println(3);
}
```

Please select 1 option

- It will print 1 0 2
- It will print 1 0 2 3
- It will print 1 0
- It will print 1
- Nothing will be printed.

Add Note

What will the following code print when run?

```
public class Mambo {
static int m = 10, n = 20;
public static void main(String args[]){
   int m = 0, n = 10;
   Mambo mb = new Mambo();
   while(m<3) {
    m++; n--;
   }
   System.out.println(m+", "+n);
}
}
```

Please select 1 option

- 10, 20
- 9, 19
- 3, 7
- None of these.

Add Note

What will the following program print?

```
public class TestClass
{
  public static void main(String[] args)
  {
    unsigned byte b = 0;
    b--;
    System.out.println(b);
  }
}
```

Please select 1 option

- 0
- -1
- 255
- -128
- It will not compile.

Add Note

Q 29 of 60 QID : com.enthuware.jfcja.v8.2.230 ?

Hide Section/Toughness Mark

Which of the following are valid operators in Java?

Please select 3 options

- !
- !!
- &&
- %=
- $

Add Note

Given the following declarations, identify valid assignments.

int i; Object p;
String s;
int[] ia;

1. i = ia[0];

INVALID

2. ia[0] = p;

VALID

3. p = s;

4. p = ia;

5. ia = i;

OK Reset Show My Answer Show Correct Answer

Consider the following code snippet:

```
for(int i=INT1; i<INT2; i++)
{
    System.out.println(i);
}
```

where, INT1 and INT2 can be any two integers.

Which of the following will produce the same result?

See Hint

Please select 1 option

- `for(int i=INT1; i<INT2; System.out.println(++i));`
- `for(int i=INT1; i++<INT2; System.out.println(i));`
- `int i=INT1; while(i++<INT2) { System.out.println(i); }`
- `int i=INT1; do { System.out.println(i); }while(i++<INT2);`
- None of these.

Add Note

Which of the following four constructs are valid....

1.
```
switch(5)
{
   default :
}
```

2.
```
switch(5)
{
   default : break;
}
```

3.
```
      switch(8);
```

4.
```
int x = 0;
switch(x)
{

}
```

Please select 1 option

- 1, 3
- 1, 2, 3
- All are valid.
- 3, 4
- 1, 2, 4.

Add Note

What will the following program print?

```
public class TestClass
{
  static int someInt = 10;
  public static void changeIt(int a)
  {
    a = 20;
  }
  public static void main(String[] args)
  {
    changeIt(someInt);
    System.out.println(someInt);
  }
}
```

Please select 1 option

- 10
- 20
- It will not compile.
- It will throw an exception at runtime.
- None of the above.

Add Note

Q 34 of 60 QID : com.enthuware.jfcja.v8.2.429 ?

Hide Section/Toughness Mark

Which of the following features are provided by the JDK?

Please select 4 options

- A Java Runtime Environment (JRE).
- Machine learning
- API for Java SE Standard
- Database engine
- Integration libraries

Add Note

Which of the following expressions correctly implement the following equation:

$y = 10x^2 + 20x + 30$

Assume that all variables are of type ints.

Please select 2 options

- y = 10**x + 20*x + 30;
- y = x*(10*x + 20) + 30;
- y = 10*x^2 + 20*x +20;
- y = 10*x*x + 20*x + 30;
- y = 10*x** + 20*x + 30;

Add Note

What will the following statement print?

```
int marks = 90;
String exam = "OCJA";
System.out.printf("I scored %d marks in the %s exam!",  exam, marks );
```

Please select 1 option

- `I scored 90 marks in the Java Foundations exam!`
- `I scored OCAJF marks in the 90 exam!`
- Exception will be thrown at run time.
- Compilation error

Add Note

Q 37 of 60 QID : com.enthuware.ifcja.v8.2.262 ?

Hide Section/Toughness Mark

Which of the following statements concerning the switch construct are true?

Please select 3 options

- A character literal can be used as a value for a case label.
- A 'long' cannot be used as a switch variable.
- An empty switch block is a valid construct.
- A switch block must have a default label.
- If present, the default label must be the last of all the labels.

Add Note

Q 38 of 60 QID : com.enthuware.ifcja.v8.2.347 ?

Hide Section/Toughness Mark

What will happen when the following program is compiled and run?

```
public class SM
{
   public String checkIt(String s)
   {
      if(s.length() == 0 || s == null)
      {
          return "EMPTY";
      }
      else return "NOT EMPTY";
   }

    public static void main(String[] args)
    {
      SM a = new SM();
      a.checkIt(null);
    }

}
```

Please select 1 option

- It will print EMPTY.
- It will print NOT EMPTY.
- It will throw NullPointerException.
- It will print EMPTY if || is replaced with |.

Add Note

Q 39 of 60 QID : com.enthuware.jfcja.v8.2.353 ?

Hide Section/Toughness Mark

Which of these statements are true?

Please select 2 options

- All classes must explicitly define a constructor.
- A constructor can be declared private.
- A constructor can declare a return value.
- A constructor must initialize all the member variables of a class.
- A constructor can access the non-static members of a class.

Add Note

Q 40 of 60 QID : com.enthuware.jfcja.v8.2.430 ?

Hide Section/Toughness Mark

Which of the following features are provided by a JDK?

Please select 2 options

- Networking protocols
- Versioning control system
- Development tools
- IDE

Add Note

Given the following class, which statements can be inserted at line 1 without causing the code to fail compilation?

```
public class TestClass
{
   int a;
   int b = 0;
   static int c;
   public void m()
   {
      int d;
      int e = 0;
      // Line 1
   }
}
```

Please select 4 options

- a++;
- b++;
- c++;
- d++;
- e++;

Add Note

Q 12 of 60 QID : com.enthuware.ifcja.v8.2.467 ? Hide Section/Toughness Mark

Which of the following statements are used to implement a boolean conditional statement in Java?

Please select 2 options

- if
- else-if
- else
- if-then-else
- switch
- for

Add Note

Q 43 of 60 QID : com.enthuware.ifcja.v8.2.209 ?

Hide Section/Toughness Mark

Which of the following statements are true?

Please select 2 options

- A static method can call other non-static methods in the same class by using the 'this' keyword.
- A class may contain both static and non-static variables and both static and non-static methods.
- Every object of a class has its own instance of each non-static member variable.
- Instance methods may access local variables of static methods.
- All methods in a class are implicitly passed a 'this' parameter when called.

Add Note

Q 14 of 60 QID : com.enthuware.jfcja.v8.2.302 ?

Hide Section/Toughness Mark

What will the following code snippet print?

```
int index = 1;
String[] strArr = new String[5];
String  myStr  = strArr[index];
System.out.println(myStr);
```

See Hint

Please select 1 option

- It will print nothing.
- It will print null.
- It will throw ArrayIndexOutOfBoundsException at runtime.
- It will print some junk value.
- None of the above.

Add Note

Which line, if any, will give a compile time error ?

```
void test(byte x)
{
   switch(x)
   {
      case 'a':   // 1
      case 256:   // 2
      case 0:     // 3
      default :   // 4
      case 80:    // 5
   }
}
```

See Hint

Please select 1 option

- Line 1 as 'a' is not compatible with byte.
- Line 2 as 256 cannot fit into a byte.
- No compile time error but a run time error at line 2.
- Line 3 as the default label must be the last label in the switch statement.
- There is nothing wrong with the code.

Add Note

Consider the following code:

```
public class Varargs
{
  public void test()
  {
      test1(10);       //1
      test1(10, 20); //2
  }

  public static void main(String[] args)
  {
    new Varargs().test();
  }

  //insert method here.
}
```

Which of the following lines can be added independently to the above class so that it will run without any errors or exceptions?

Please select 2 options

- public void test1(int i, int j){}
- public void test1(int i, int... j){}
- public void test1(int... i){}
- public void test1(int i...){}
- public void test1(int[] i){}

Add Note

Q 17 of 60 QID : com.enthuware.jfcja.v8.2.421 ?

Hide Section/Toughness Mark

Which package contains Random class?

Please select 1 option

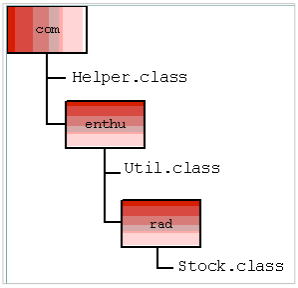
- java.lang
- java.util
- java.math
- java.net

Add Note

Consider the following directory structure shown in Image 1 that displays available folders and classes and the code given below.

```
class StockQuote
{
  Stock stock;
  public StockQuote(Stock s)  {
  }
  public double computePrice(){
    return Helper.getPricer(stock).price();
  }
}
```

Assuming that the code uses valid method calls, what statements must be added to the above class?



Please select 2 options

- import com.enthu.*;
- import com.*.*;
- import *.*.*;
- import com.*;
- import com.enthu.rad.*;
- import all;

Add Note

Given the class

```
// Filename: Test.java
public class Test
{
   public static void main(String args[])
   {
      for(int i = 0; i< args.length; i++)
      {
         System.out.print("  "+args[i]);
      }
   }
}
```

Now consider the following 3 options for running the program:

```
a: java Test
b: java Test param1
c: java Test param1 param2
```

Which of the following statements are true?

Please select 2 options

- The program will throw `java.lang.ArrayIndexOutofBoundsException` on option a.
- The program will throw `java.lang.NullPointerException` on option a.
- The program will print `Test param1` on option b.
- It will print `param1 param2` on option c.
- It will not print anything on option a.

Add Note

Q 50 of 60 QID : com.enthuware.jfcja.v8.2.256 ?

Hide Section/Toughness Mark

Given the following LOCs:

```
int i = 0;
char ch = 'a';
```

Which of the following will put correct integer value of the char variable ch into the int variable i?

Please select 3 options

- `i = ch ;`
- `i = (int) ch ;`
- `i << ch ;`
- `i <<< ch`
- `i += ch;`
- `i := ch;`

Add Note

Q 51 of 60 QID : com.enthuware.jfcja.v8.2.325 ? Hide Section/Toughness Mark

Which of the lines will cause a compile time error in the following program?

```
public class MyClass
{
   public static void main(String args[])
   {
      char c;
      int i;
      c = 'a';//1
      i = c;  //2
      i++;    //3
      c = i;  //4
      c++;    //5
   }
}
```

Please select 1 option

- The line 1
- The line 2
- The line 3
- The line 4
- The line 5

Add Note

Q 52 of 60 QID : com.enthuware.jfcja.v8.2.478 ?

Hide Section/Toughness Mark

Which of the following classes are from java.util package?

Please select 3 options

- String
- ArrayList
- Collection
- Math
- Random

Add Note

What will be the result of attempting to compile and run the following code?

```
class SwitchTest
{
   public static void main(String args[])
   {
      for ( int i = 0 ; i < 3 ; i++)
      {
         boolean flag  = false;
         switch (i)
         {
            flag  = true;
         }
         if ( flag )  System.out.println( i );
      }
   }
}
```

Please select 1 option

- It will print 0, 1 and 2.
- It will not print anything.
- Compilation error.
- Runtime error.
- None of the above.

Add Note

Q 54 of 60 QID : com.enthuware.jfcja.v8.2.456 ?

Hide Section/Toughness Mark

Which of the following statements correctly use the float data type?

Please select 1 option

var float x = 10.0;

float x : 10.0;

float x = 10.0F;

float x : 10.0F;

var float f = 10.0f;

Add Note

What will the following program print?

```
public class TestClass
{
   public static void main(String[] args)
   {
      String str = "111";
      boolean[] bA = new boolean[1];
      if( bA[0] ) str = "222";
      System.out.println(str);
   }
}
```

Please select 1 option

- 111
- 222
- It will not compile as bA[0] is uninitialized.
- It will throw an exception at runtime.
- None of the above.

Add Note

Given:

```
class Node{
    int id;
    Node node;
    public static void main(String[] args) {
       Node n =  new Node();
       System.out.println(n.id);
       System.out.println(n.node.id);
    }
}
```

What is the result?

Please select 1 option

- 0 0
- 0 null
- 0 exception at runtime
- Compilation failure

Add Note

Consider the following two java files:

```
//in file SM.java
package x.y;
public class SM
{
    public static void foo(){ };
}


//in file TestClass.java

//insert import statement here //1
public class TestClass
{
   public static void main(String[] args)
   {
      foo();
   }
}
```

What should be inserted at //1 so that TestClass will compile and run?

Please select 2 options

- `import static x.y.*;`
- `import static x.y.SM;`
- `import static x.y.SM.foo;`
- `import static x.y.SM.foo();`
- `import static x.y.SM.*;`

Add Note

Which of the given options can be successfully inserted at line 1....

```
//line 1
public class A
{
}
```

Please select 3 options

- `import java.lang.*;`
- `package p.util;`
- `public class MyClass{ }`
- `class MyClass{ }`

Add Note

What happens when you try to compile and run the following program?

```
public class CastTest
{
   public static void main(String args[ ] )
   {
      byte b = -128 ;
      int i = b ;
      b = (byte) i;
      System.out.println(i+" "+b);
   }
}
```

See Hint

Please select 1 option

- The compiler will refuse to compile it , as i and b are of different types cannot be assigned to each other.
- The program will compile and will print -128 and -128 when run .
- The compiler will refuse to compile it , since -128 is outside the legal range of values for a byte.
- The program will compile and will print 128 and -128 when run .
- The program will compile and will print 255 and -128 when run .

Add Note

What can be inserted in the following code so that it will print exactly 2345 when compiled and run?

```
public class FlowTest {

    static int[] data = {1, 2, 3, 4, 5};

    public static void main(String[] args) {
        for (int i : data) {
            if (i < 2) {
                //insert code1 here
            }
            System.out.print(i);
            if (i == 3) {
                //insert code2 here
            }
        }
    }
}
```

Please select 2 options

```
break;
and
//nothing is required
```

```
continue;
and
//nothing is required
```

```
continue;
and
continue;
```

```
break;
and
continue;
```

```
break;
and
break;
```

Add Note