PLA1001 | Mid-term | B21+B22+B23 | **FACE**

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* Required

Untitled Section

A number whose numeral is rotationally symmetric is _____ *

- A. Phi Number
- B. Euclid's numbers
- C. Palindrome Number
- D. Strobogrammatic Number

What is the output of the below Java program? class static_out static int x; static int y; void add(int a , int b) x = a + b;y = x + b;class static_use public static void main(String args[]) static_out obj1 = new static_out(); static_out obj2 = new static_out(); int a = 2; obj1.add(a, a + 1); obj2.add(5, a); System.out.println(obj1.x + "" + obj2.y);

- (a) 77
- **b**) 6 6
- O d) 97

.What would be the output of the following code snippet if variable a=10? *

```
if(a<=0)
{
    if(a==0)
    {
        System.out.println("1 ");
    }
    else
    {
        System.out.println("2 ");
    }
}
System.out.println("3 ");</pre>
```

- (a)1,3
- (b)1,2
- C)2,3
- (b) d)3

What will be the output of the following Java program? *

```
class Output
           public static void main(String arg
                int a = 5;
                int b = 10;
                first:
                   second:
                       third:
                            if (a == b \gg 1)
14.
                                break second;
                       System.out.println(a);
18.
                     System.out.println(b);
19.
            }
a) 5 10
```

(b) 10 5

c) 5

(a) 10

.What is the output of this program?*

```
public class jump_statment_Example
{
   public static void main(String args[])
   {
      int p = 4,q = 5;
      for (; q < 10; ++q)
      {      if (q % p == 0)
        {
            continue;
      }
      else if (q == 10)
      {
            break;
      }
      else
      {
            System.out.print(q + " ");
      }}}
</pre>
```

- (a) 5,6,7,9
- b)1,2,3,4,5
- c)2,3,4,5
- d)6,7,8,9

A break statement inside a Loop like while, for, do...while and Enhanced-for causes the program execution ___ Loop. *

- A) Exit
- B) Continuation with next iteration
- C) Never exit
- O D) None

String class belongs to _____ package *

- A java.awt
- B java.lang
- C java.applet
- O java.string

Find the output of the program
public class Main{
public static void main(String[] args) {
 char x = 'X';
 int i = 0;
 System.out.print(true ? x : 0);
 System.out.print(false ? i : x);
}

a) X98

b) Compile time error

c) X88

d) Runtime error

Using Booth's Algorithm for multiplication, the multiplier -57 will be recoded as *

(A) 0 -1 0 0 1 0 0 -1

(B) 1 1 0 0 0 1 1 1

(C) 0 -1 0 0 1 0 0 0

(D) 0 1 0 0 -1 0 0 1

If you want to search from a 1D array traversing through the positions sequentially, the time complexity would be _____*

- (a) O(n)
- b) O(log n)
- c) O(n2)
- () O(n log n)

What will be the output of the following Java program? *

- (a) 1357
- b) 2 4 6 8
- (a) 13579
- (d) 123456789

Time complexity of Simple Sieve of Eratosthenesis *

- B. O(n*log(n-1))
- C. Quadratic
- O. Linearithmic

Which of the following option leads to the portability and security of Java? *

- 1. Bytecode is executed by JVM
- 2. The applet makes the Java code secure and portable
- 3. Use of exception handling
- 4. Dynamic binding between objects

What will be the output of the following Java program? *

- (a) 5
- **b**) 6
- O c) 14
- d) compilation error

What is another word for half an octet?A. four-bit aggregationB. NibbleC. Short Bit *

- A. A Only
- B. B Only
- C. A and C
- D. A and B

Which of these method of class String is used to obtain length of String object?

- A. get()
- B. Sizeof()
- C. lengthof()
- D. length()

What is the output of the below Java program with arrays? *

```
public class Polo {
    public static void main(String args[])
    {
       String[] computer = {"RAM","HDD","MOUSE"};
      String[] parts = {computer[0],computer[2]};
      System.out.print(parts[1]);
    }
}
```

- A) RAM
- B) HDD
- O MOUSE
- D) Compiler error

H

What is the output of the Java code snippet? System.out.println(0b0000_1000); *
A) 0b0000_1000
O B) 1000
C) 8
O D) 9
Which of these is not a bitwise operator? *
(a) &
(b) &=
O c) =
d) <=
What is the output of the following code? *
<pre>public class Main{ public static void main(String args[]){ StringBuffer s = new StringBuffer("Bob"); s.deleteCharAt(0); System.out.println(s); } </pre>
O A Во
B ob
○ C Bob
O DB
What is the range of int data type in Java? *
a) -128 to 127
(a) b) -32768 to 32767
(c) -2147483648 to 2147483647
d) None of the mentioned
How many variants of the sieve algorithms are there? *
O A. 1
O B. 2
O. 3
O D. 4

Evaluate the following Java expression, if $x=3$, $y=5$, and $z=10:++z+y-y+z+x++*$
O 24
O 23
O 20
25
If an index of an element is N, what is its actual position in the array? *
A) N-1
○ B) N
○ C) N+1
O D) N+2
Which of the following is a Divide and Conquer application for fast multiplication? *
Karatsuba Algorithm
O Booth's algorithm
C Euclid Algorithm
Irvine's multiplication algorithm
What is the main difference between a while and a dowhile loop in Java? *
A) while loop executes the statements inside of it at least once even if the condition is false.
B) dowhile loop executes the statements inside of it at least once even if the condition is false.
C) while loop is fast.
D) dowhile loop is fast
Which of the following is a mutable class in java? *
1. java.lang.String
2. java.lang.Byte
3. java.lang.Short
4. java.lang.StringBuilder

What will be the output of the following Java program? *

- (a) 316
- (b) 223
- c) 234
- (d) 336

Which of the following algorithms is used to find GCD of two numbers1. Euler's phi Algorithm2. Remainder Theorem3. Euclid's Algorithm *

- A. 1 Only
- B. 1 and 2
- C. 2 and 3
- D. 1 and 3

*

```
What will be the output of the following Java program?
Class Main {
public static void main(String args[])
{
  int x = 2;
  int y = 0;
  for (; y < 10; ++y)
{
    if (y % x == 0)
      continue;
    else if (y == 8)
    break;
    else
    System.out.print(y +"");
}
}</pre>
```

- a) 1357
- b) 2 4 6 8
- c) 13579
- (d) 123456789

Which of these are selection statements in Java? *

a) if()
b) for()
c) continue
d) break

What is the output of the Java program given below? *

```
class Output
{
    public static void main(String args[])
    {
        int a = 1;
        int b = 2;
        int c;
        int d;
        c = ++b;
        d = a++;
        c++;
        b++;
        ++a;
        System.out.println(a + "" + b + "" + c);
    }
}
```

- a) 3 2 4
- (b) 3 2 3
- c) 234
- (a) 3 4 4

Imagine we have two integers a and b. If we keep subtracting repeatedly the larger of two, we end up with $___$ *

- a. LCM
- **b.** HCF
- C. Zero
- d. Both A and B

Which of these selection statements test only for equality? *

- a) if
- b) switch
- c) if and switch
- d) none of the mentioned

What is the output of the below Java program with arrays? String[] colors = {"RED";"YELLOW";"WHITE"}; System.out.print(colors[2]); * A) RED B) YELLOW C) WHITE D) Compiler error Which of these method of class String is used to extract a single character from a String object? * A. CHARAT() B. charat() C. charAt() D. ChatAt() oublic class CompareToExample2{ oublic static void main(String args[]){ ing **s1**="hello"; ing s2=""; s3="me"; ..out.println(s1.compareTo(s2)); ..out.println(s2.compareTo(s3)); 5 2 \bigcirc 02 22 \bigcirc 11 The evaluation of a logical expression exit in between before complete evaluation in Java is known as * A. Preevaluation B. PostEvaluation C. Short Circuiting D. Cache Evaluation

Which operator is used to invert all the digits in a binary representation of a number? *

- a) ~
- (b) <<<
- () c) >>>
- () d) ^

```
What is the output of the below Java program?
int a=1;
while(a<4)
{
System.out.print(a + "; ");
a++;
}
```

- A) 1 2 3 4
- B) 1 2 3
- O C) 6
- O) Compiler error

Clear selection

Evaluate the following Java expression, if x=3, y=5, and z=10:++z+y-y+z+x++

- 1.24
- 2. 23
- 3.20
- 4. 25

In Java arrays are *

- Objects
- Objects References
- Primitive data type
- None of the above

What will be the output of the following Java code?

```
enum Season
{
        A, B, X, Z
};

System.out.println(Season.A.ordinal());
```

- (a) 0
- (b) 1
- O c) 2
- O d) 3

Clear selection

Which of these operators is used to allocate memory to array variable in Java? *

- a) malloc
- b) alloc
- o new
- d) new malloc

*

```
Predict the output
   class Main {
      public static void main(String args[])
      {
         int a = 3;
         int b = 6;
      int c = a | b;
         int d = a & b;
         System.out.println(c + "" + d);
      }
}
```

- 7 2
- 77
- 75
- 52

What is the time complexity of following code: *

```
int a = 0, i = N;
while (i > 0)
{
a += i;
i /= 2;
}
```

- \bigcirc O(N)
- O(Sqrt(N))
- \bigcirc O(N / 2)
- O(log N)

Which of the below is invalid identifier with the main method? *

- a) public
- b) static
- o c) private
- d) final

*

```
Predict the output
   class Main {
     public static void main(String args[])
     {
        int a = 3;
        int b = 6;
        int c = a | b;
        int d = a & b;
        System.out.println(c + " " + d);
     }
}
```

- (a) 72
- (b) 77
- O c) 75
- (d) 5 2

Which of the following is a Divide and Conquer application for fast multiplication? *

- A. Karatsuba Algorithm
- B. Booth's algorithm
- C. Euclid Algorithm
- D. Irvine's multiplication algorithm

What will this code print? int arr[] = new int [5]; System.out.print(arr); *
(a) 0
b) value stored in arr[0].
C) 00000
d) Class name@ hashcode in hexadecimal form
In which memory a String is stored, when we create a string using new operator?
1. Stack
2. String memory
3. Heap memory
4. Random storage space
<pre>What would be the output of the following code snippet if variable p=20? * public class Result public static void main(String args[]) int p=20; if(p<=0) { if(p==0) { System.out.println("5 "); } else { System.out.println("10 "); } } System.out.println("15 "); } 10 50 15 20</pre>

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