

COP and OS Mock Test1

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class Program

*

1 point

{

public static void main(String as[])

{

System.out.println("Hello");

}

public static void main(String....args)

{

System.out.println("Welcome to Java");

}

}

- ☐ A. Hello
- ☐ B. Welcome to java
- ☐ C. Run time error
- ☒ D. Compile time error

To handle streams and buffers in java language, mostly _____ data type is used.

* 1 point

- ☐ A. short
- ☒ B. byte
- ☐ C. int
- ☐ D. float



Java assignment operator has priority more than _____ *

1 point

- ☒ A. Assignment and Lambda operator
- ☐ B. Logical and bitwise operator
- ☐ C. Arithmetic operator
- ☐ D. Logical operator

```
class HelloWorld {
```

*

1 point

```
    public static void main(String[] args) {  
        String name1="FOX", name2="DOG";  
        if(name1 == "FOX")  
            System.out.print("FOX ");  
            System.out.println("GOOD");  
        if(name2 == "CAT")  
            System.out.println("DINO");  
    }  
}
```

- ☐ A. FOX DINO
- ☒ B. FOX GOOD
- ☐ C. Compiler error
- ☐ D. FOX GOOD DINO



Which of the following modifier, we can not use for constructor? *

1 point

- ☐ A. public
- ☒ B. static
- ☐ C. private
- ☐ D. protected

If compiler looks two same varargs methods then it will throw the below command

* 1 point

- ☒ A. The method is ambiguous
- ☐ B. The method is difficult to choose
- ☐ C. The method signature is not correct
- ☐ D. None of these



public class Test {

*

1 point

```
public static void main(String[] args) {  
    int[][] num = new int[3][];  
    int i, j;  
    num[0] = new int[4];  
    num[1] = new int[2];  
    num[2] = new int[5];  
    for (i = 0; i < num.length; i++) {  
        for (j = 0; j < num[i].length; j++) {  
            num[i][j] = new int[i + j + 1];  
            System.out.println("size = " + num[i][j].length);  
        }  
    }  
}
```

- ☐ A. It will throw an exception
- ☐ B. Compiler error
- ☒ C. It will produce the expected output
- ☐ D. None of these

If you want to pass an array to a method, the method receives

* 1 point

_____.

- ☐ A. A copy of the first element
- ☒ B. The reference of an array
- ☐ C. A copy of the array
- ☐ D. The length of the array



If any process fails, operating system will write all information in_____ * 1 point

- ☐ A. New file
- ☐ B. Executable file
- ☒ C. Log file
- ☐ D. Doc file

The _____ will enable interpretation of commands the user enters from their

Console.

- ☐ A. cmd
- ☒ B. shell
- ☐ C. LAN
- ☐ D. UI

The statement `x='expr 7/3'` will store which of the value in x? * 1 point

- ☐ A. 0
- ☐ B. 1
- ☒ C. 2
- ☐ D. 2.5



In _____ algorithm, Once a process is executed for a given time period, it is preempted and other process executes for a given time period.

* 1 point

- ☐ A. First Come First Serve scheduling
- ☐ B. Shorted Job First Scheduling
- ☐ C. Priority Based Scheduling
- ☒ D. Round Robbin Scheduling

Normally, after a fork() call, the child and parent process will not perform similar task. If the same task is need to be run, then for each fork() call it will run _____, where n is the number of times fork() is called.

* 1 point

- ☐ A. 2 power n times
- ☒ B. 2 power n/2 times
- ☐ C. 1 power n/3 times
- ☐ D. 1 power n*n times

Turnaround time=_____.*

1 point

- ☒ A. Burst Time + Waiting time / Exit time – Arrival time
- ☐ B. Burst Time - Waiting time / Exit time + Arrival time
- ☐ C. Burst Time + Exit time / Waiting time – Arrival time
- ☐ D. Arrival Time - Waiting time / Exit time – Burst time



The thread has only a _____ in the memory and they share the _____ with the parent process. * 1 point

- ☒ A. heap, stack
- ☐ B. stack, heap
- ☐ C. method area, stack
- ☐ D. heap, method area

Main memory is divided into small fixed size blocks of physical memory called _____. * 1 point

- ☒ A. Page
- ☐ B. swapping
- ☐ C. Node
- ☐ D. Frame

Dirty bit for a page in a page table _____ * 1 point

- ☐ A. allows only read on a page
- ☐ B. helps to maintain LRU information
- ☒ C. Helps to avoid unnecessary writes on a page devices
- ☐ D. Allow illegal access of page



Select the incorrect statement about virtual memory

* 1 point

1. It increase the degree of multiprogramming
2. Less I/O or loading and unloading for individual user process
3. Reduces the context switching overhead
4. Does not allow address space to be shared by several process

- ☐ A. 1,4,3 only
- ☐ B. 3,2 only
- ☒ C. 3,4 only
- ☐ D. 2,3,4 only

Which of the following is not a necessary condition for the deadlock *

1 point

- ☒ A. Mutual Exclusion
- ☐ B. Hold and wait
- ☐ C. Circular wait
- ☐ D. preemption

Messages sent by a process: *

1 point

- ☒ A. have to be of a fixed size
- ☐ B. have to be a variable size
- ☐ C. can be fixed or variable sized
- ☐ D. None of these

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