

# Assessment - 2

The due date for submitting this assignment has passed.

**Due on 2017-02-19, 23:55 IST.**

## Submitted assignment

Assessment can be submitted multiple times.

**1 point**

Where are the commands that can be executed by all Linux users placed in the root file system?

/bin

/lib

/sbin

/etc

**1 point**

In current systems, our system hangs because of Thrashing. Which of the following are ways to deal with thrashing?

OS can kill the thrashing process

All options are correct.

Asking user to kill the process

Buy more memory

**1 point**

File system resides on \_\_\_\_\_

Processor

None of the above

Main memory

Hard disks

**1 point**

State true or false. The goal of VFS is to provide a unified interface for the OS irrespective of the type of the underlying file system.

True

False

**1 point**

In the Contiguous allocation for disk blocks, files cannot grow dynamically because \_\_\_\_\_

The disk does not have enough space

The scheme does not allow files to grow (by design itself)

(No answer is correct because files can grow)

The next block could be occupied by another file

**1 point**

State true or false. Indexed allocation has the overhead of maintaining the metadata that says where the rest of the blocks are located.

False

True

**1 point**

What is the significance of the dot (.) Operator in Linux?

Visible By Default and Treated as Non- Hidden file.

Not-visible by Default and Treated as Non- Hidden File.

Treated as Hidden File and Visible by Default.

Treated as Hidden file and Not-visible by Default.

**1 point**

In Linux, what is the default shell that is assigned to an user when the user id is created?

sh

bash

ksh

csh

**1 point**

What is the use of cat -n command?

Displays content of file with line numbers in terminal.

Displays a new file and no. of lines in terminal.

concatenates two strings in newly created file.

Displays the result in newly created file.

**1 point**

Watching a youtube video is a typical case of a producer consumer problem? Here. \_\_\_\_\_ is the producer and \_\_\_\_\_ is the consumer.

Web browser, Youtube Server

Youtube server, Web browser

Internet Provider, Web browser

Web browser, Internet Provider

**1 point**

Which of the following is not a necessary condition for Dead lock to occur?

Preemption

Circular wait

Mutual Exclusion

Hold and wait

**1 point**

State true or false. When a user encounters a page fault, 1) The user application informs the OS, 2) User uses API calls to the hardware Memory Management unit, 3) Memory Management unit brings the page from hard disk to main memory.

True

False

**1 point**

An application developer observes that the initial few pages (containing global data) of the application keeps getting swapped out to the hard disk (page replacement), and there is a performance overhead in bringing it back every time. He suspects that the OS developer used \_\_\_\_\_ page replacement algorithm.

None of the options.

MIN Algorithm

FIFO

LRU

**2 points**

State true or false.

1) Temporal locality states if a page is accessed, then there is a high chance that the nearby pages will be accessed.

2) Thrashing happens when the CPU spends more time swapping pages in and out rather than executing programs.

True, True

True, False

False, False

False, True