



Sri Lanka Institute of Information Technology

n2
answered
out of 1.0
question

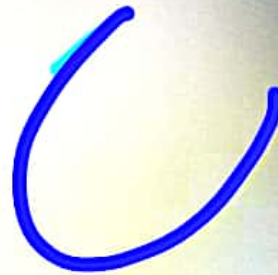
What is the output of Line B?

```
int value = 5;

int main ()
{
    pid = fork();
    if (pid == 0) {
        value = value + 15;
    }
    else if (pid > 0) {
        wait (NULL); // Line A
        printf ("Parent: value = %d\n", value); // Line B
    }
    return (0);
}
```

Select one:

- ☐ a. Parent: value = 15
- ☐ b. None of the given
- ☐ c. Parent: value = 5
- ☐ d. Parent: value = 20
- ☐ e. Parent: value = 0



Add a caption...




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Question 3
Not yet answered
Marked out of 1.0
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This is not a necessary condition to have a deadlock in a computer system.

Select one:

- ☐ a. Mutual exclusion
- ☐ b. No preemption condition
- ☐ c. Hold and wait condition
- ☐ d. Progress condition
- ☐ e. Circular condition

(A large blue handwritten 'D' is drawn over the options.)



Add a caption...



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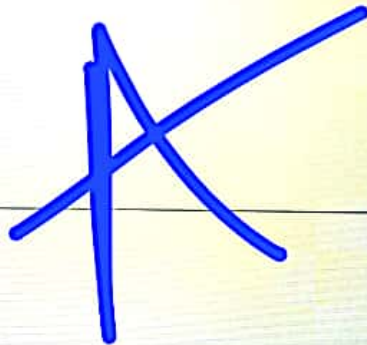


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In the link list allocation technique, each block size is 512 bytes and each block address is 8bytes. If a file has 10 data blocks, what is the size of the file with only data?

Select one:

- ☐ a. 40960 bytes.
- ☐ b. 80 bytes.
- ☐ c. 5040 bytes.
- ☐ d. 4096 bytes.
- ☐ e. 5120 bytes.



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Consider the following statements related to the CPU scheduling:

- a) Medium term scheduler is available in Time shared system.
- b) Short term scheduler controls the degree of multiprogramming.
- c) Long term scheduler is faster than the short term scheduler.

Select one:

- ☐ a. Only a) is correct.
- ☐ b. Only b) is correct.
- ☐ c. Only a) and b) are correct.
- ☐ d. All are correct
- ☐ e. None of the above

B

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Question 9

Not yet answered

Marked out of 1.0

Flag question

Consider the following statements related to the CPU scheduling:

- a) Medium term scheduler is available in Time shared system.
- b) Short term scheduler controls the degree of multiprogramming.
- c) Long term scheduler is faster than the short term scheduler.

Select one:

- ☐ a. Only a) is correct.
- ☐ b. Only b) is correct.
- ☐ c. Only a) and b) are correct.
- ☐ d. All are correct
- ☐ e. None of the above

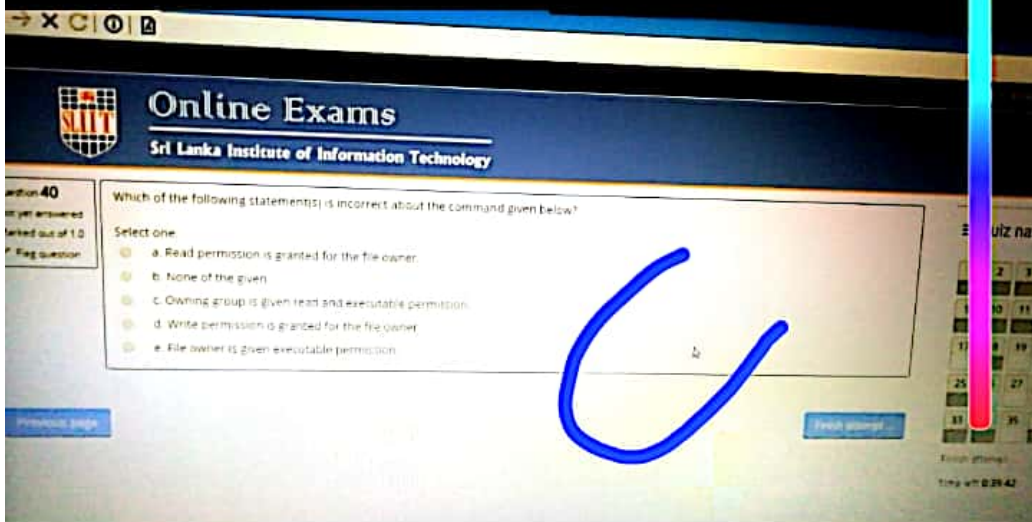
AB



Add a caption...

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Add a caption...



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Question 13
Not yet answered
Marked out of 1.0
Flag question

What is the output of Line B?

```
int value = 5;  
int main ()  
{  
    pid = fork();  
    if (pid == 0) {  
        value = value + 15;  
    }  
    else if (pid > 0) {  
        wait(NULL); // Line A  
        printf("Parent: value = %d\n", value); // Line B  
    }  
    return 0;  
}
```

Select one:

- ☐ a. Parent: value = 0
- ☐ b. Parent: value = 20
- ☐ c. Parent: value = 15
- ☐ d. None of the given
- ☐ e. Parent: value = 5



Add a caption...



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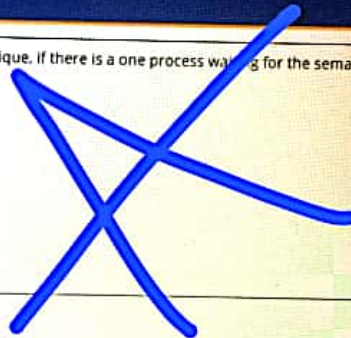
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If the semaphore is implemented using the block and wake up technique. If there is a one process waiting for the semaphore in the waiting queue. What is the value of the semaphore at this time?

Select one:

- ☐ a. -1
- ☐ b. 2
- ☐ c. 0
- ☐ d. -2 A
- ☐ e. 1



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Question 24

Not yet answered

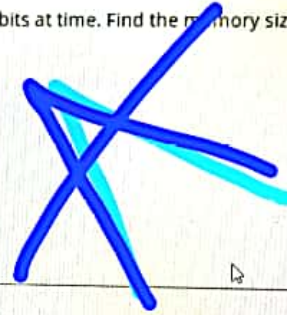
Marked out of 1.0

Flag question

A compute register can process 20 bits at time. Find the memory size.

Select one:

- ☐ a. 20MB
- ☐ b. 32GB
- ☐ c. 1GB
- ☐ d. 32kB
- ☐ e. 1MB



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Question 26
Not answered
Marked out of 1.00
Flag question

Consider the following C program.

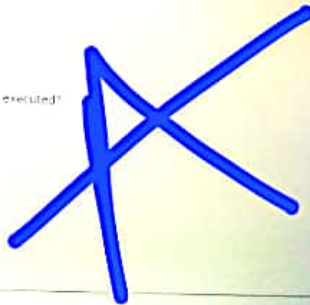
Assume variables i and pid , and constant N have been properly defined, and/or initialized and there is no syntax error.

```
int main ()  
{  
    for( $i=0$ ;  $i < N$ ;  $i++$ ) {  
         $pid=fork()$ ;  
    }  
}
```

For $N=5$, How many processes are created when the program is executed?

Select one:

- ☐ a. 16
- ☐ b. 32
- ☐ c. 31
- ☐ d. 33
- ☐ e. 15



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Question 28
Not yet answered
Marked out of 1.0
Flag question

A computer has 32GB virtual memory and 256MB RAM. If the page size is 16KB. Find the number of entries in the page table.

Select one:

- ☐ a. 2^{16} pages
- ☐ b. 2^{20} pages
- ☐ c. 2^8 pages
- ☐ d. 2^{20} pages
- ☐ e. 2^{16} pages

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Add a caption...



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Question 1
Not yet answered
Marked out of 1.0
Flag question

Consider the following set of processes with their arrival time, priority, and burst time. If the preemptive priority scheduling algorithm (smaller integer has higher priority) is used, compute the average waiting time.

Processes	Arrival Time	Priority	Burst Time
A	0	3	8
B	2	2	4
C	5	2	2
D	7	1	4

Select one:

- ☐ a. 3 seconds
☐ b. 3.75 seconds
☐ c. 4 seconds
☐ d. 4.45 seconds
☐ e. None of the above

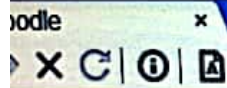
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CANCEL



DONE





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Question 3

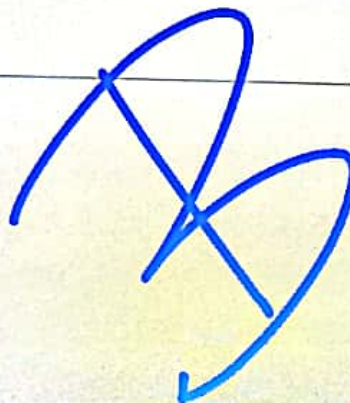
Not answered
Marked out of 1.0
Flag question

Which is a memory allocation strategy in contiguous allocation?

Select one:

- ☐ a. Compaction
- ☐ b. Paging
- ☐ c. Segmentation
- ☐ d. Worst Fit
- ☐ e. Fast Fit

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CANCEL



DONE



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Question 5
Not yet answered
Marked out of 1.0
Flag question

Disk requests come in the disk driver for cylinders 10, 22, 2, 40, 6, and 38, in that order. A seek takes 6 ms per cylinder moved. Assuming the arm is initially at cylinder 20, and moving toward larger cylinder number for a disk with 64 cylinders, how much seek time is needed for SCAN algorithm.

Select one:

- ☐ a. 624ms
- ☐ b. 348ms
- ☐ c. 928ms
- ☐ d. 696ms
- ☐ e. 58ms

Previous page

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Finish
Time

B



CANCEL



DONE



A solution to the external fragmentation problem is

Select one:

- ☐ a. Swap out
- ☐ b. MMU
- ☐ c. Paging
- ☐ d. Segmentation
- ☐ e. Swap in



CANCEL




DONE



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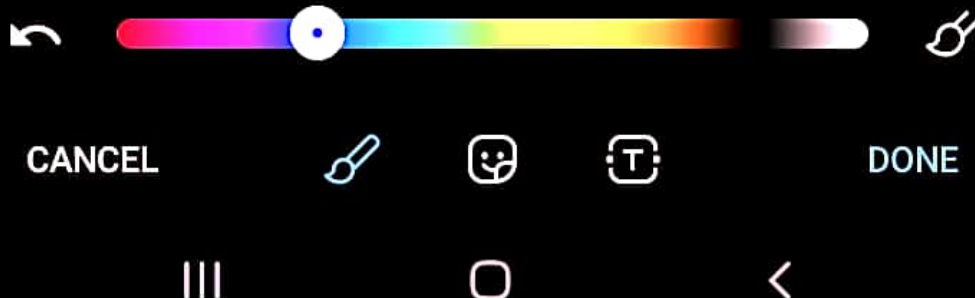
Question 5
Not answered
Full mark of 1.0
Flag question

Disk requests come in the disk driver for cylinders 10, 22, 2, 40, 6, and 38, in that order. A seek takes 6 ms per cylinder moved. Assuming the arm is initially at cylinder 20, and moving toward larger cylinder number for a disk with 64 cylinders, how much seek time is needed for FIFO algorithm.

Select one:

- ☐ a. 754ms
- ☐ b. 624ms
- ☐ c. 696ms
- ☐ d. 348ms
- ☐ e. 124ms

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Disk requests come in the disk driver for cylinders 10, 22, 2, 40, 6, and 38, in that order. A seek takes 6 ms per cylinder moved. Assuming the arm is initially at cylinder 20, and moving toward larger cylinder number for a disk with 64 cylinders, how much seek time is needed for C-SCAN algorithm.

Select one:

- ☐ a. 624ms
- ☐ b. 348ms
- ☐ c. 928ms
- ☐ d. 58ms
- ☐ e. 696ms

B

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CANCEL



DONE





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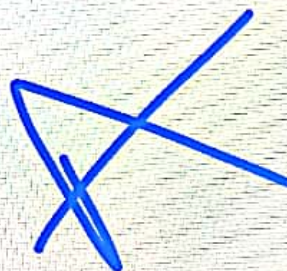
7

Answered
out of 1.0
Question

Which is a method of implementing the large page table in memory management?

Select one:

- ☐ a. Memory Map page table
- ☐ b. Swap out page Table
- ☐ c. Segmented Page table
- ☐ d. Swap in page Table
- ☐ e. Inverted page table

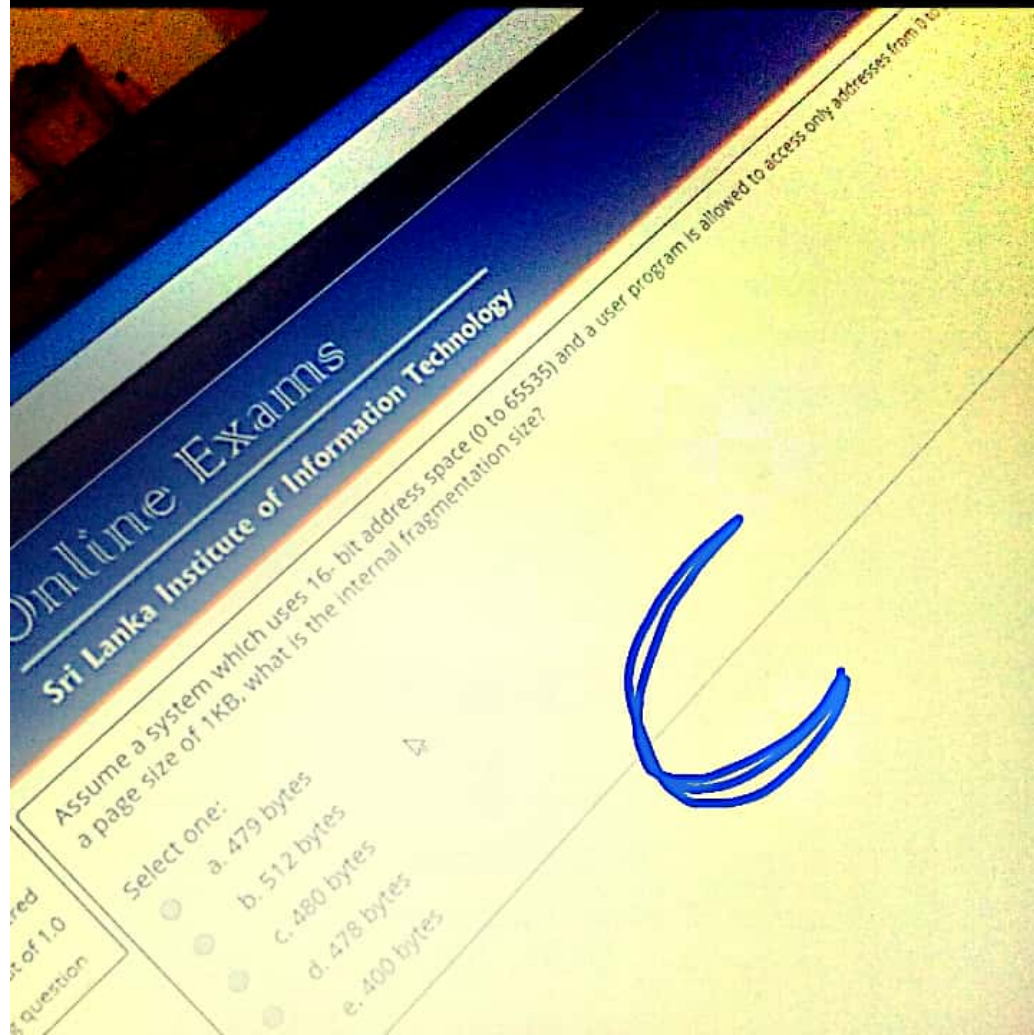


CANCEL



DONE





CANCEL



DONE



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Question 25
Not yet answered
Marked out of 1.0
Flag question

A compute register can process 20 bits at time. Find the memory size.

Select one:

- ☐ a. 1GB
- ☐ b. 32kB
- ☐ c. 32GB
- ☐ d. 20MB
- ☐ e. 15MB

Previous question

Next question

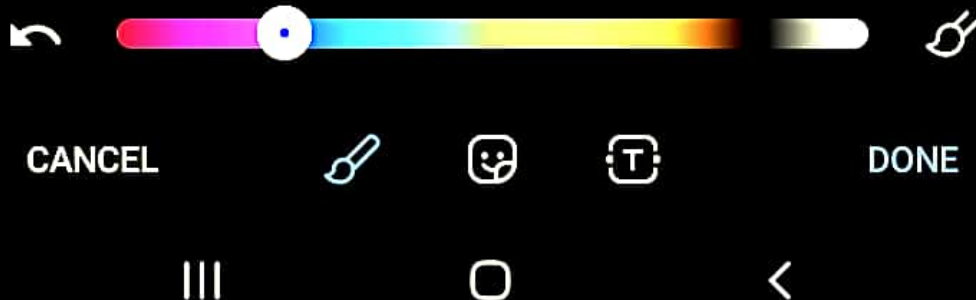
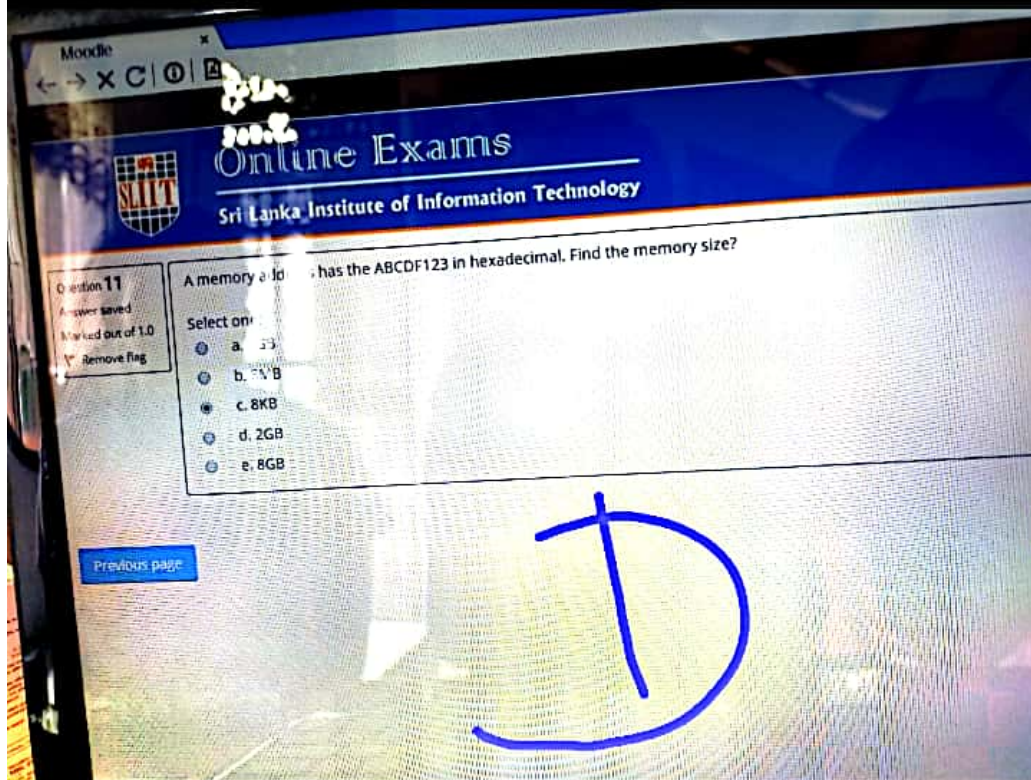



CANCEL



DONE





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10
answered
out of 1.0
question

Given the following set of processes with their arrival times and burst times.


Process	Arrival time in milliseconds	Burst time in milliseconds
A	0	7
B	2	5
C	4	2
D	5	5

Apply round-robin (quantum = 3 milliseconds) scheduling considering the context switching time as 0.1 milliseconds.

Compute the average waiting time.

Select one:

- ☐ a. 35.1 ms
- ☐ b. 35.21 ms
- ☐ c. 8.67 ms
- ☐ d. 8.77 ms
- ☐ e. 7.775



Hasitha
08.06.20 at 10:28



CANCEL



DONE





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A compute register can process 20 bits at time. Find the memory size.

Select one:

- ☐ a. 32KB
- ☐ b. 20MB
- ☐ c. 32GB
- ☐ d. 1MB
- ☐ e. 1GB

e



CANCEL



DONE





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The degree of Multiprogramming is controlled by,

Select one:

- ☐ a. CPU scheduler
- ☒ b. Long Term Scheduler
- ☐ c. Medium Term Scheduler
- ☐ d. Dispatcher
- ☐ e. None of the above

B



CANCEL



DONE





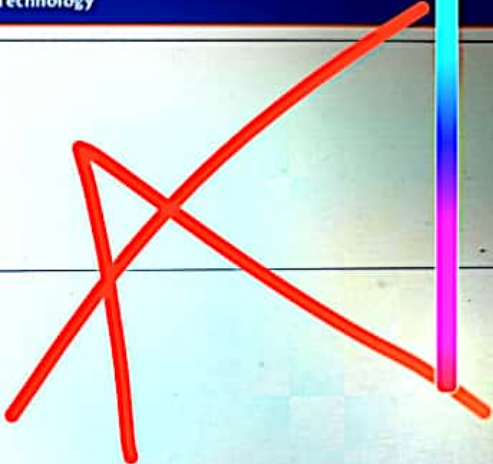
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Question 12
Not yet answered
Marked out of 1.00
Flag question

Hue and Saturation both together produce....

Select one or more:

- ☐ a. Chromaticity
- ☐ b. Reflectivity
- ☐ c. Brightness
- ☐ d. Radiance
- ☐ e. Transitivity



Add a caption...



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