Dashboard (http://ngitonline.com/student/dashboard.php) / Quiz

Started on	Wednesday, 3 February 2021, 5:15 PM
State	Finished
Completed on	Wednesday, 3 February 2021, 5:41 PM
Time taken	26 mins 14 secs
Marks	7.00/10.00
Grade	<b>70.00</b> out of 100.00

Correct

Mark 1.00 out of 1.00

```
What is the output of the following program?
class Alpha
{
  static String s = " ";
  protected Alpha()
     s += "alpha ";
  }
}
class SubAlpha extends Alpha
{
  private SubAlpha()
  {
     s += "sub ";
  }
}
public class SubSubAlpha extends Alpha
{
  private SubSubAlpha()
     s += "subsub ";
  }
  public static void main(String[] args)
  {
     new SubSubAlpha();
     System.out.println(s);
  }
}
```

#### Select one:

- a. subsub sub
- b. sub subsub



The correct answer is: alpha subsub

Correct

Mark 1.00 out of 1.00

```
What is the output of the following program?
public class Outer
{
          private int data = 10;
          class Inner
          {
                    private int data = 20;
                    private int getData()
                    {
                              return data;
                    }
                    public void main(String[] args)
                    {
                              Inner inner = new Inner();
                              System.out.println(inner.getData());
                    }
          }
          private int getData()
          {
                    return data;
          }
          public static void main(String[] args)
          {
                    Outer outer = new Outer();
                    Outer.Inner inner = outer.new Inner();
                    System.out.printf("%d", outer.getData());
                    inner.main(args);
          }
}
Select one:
 a. None of these
 b. 2010
 c. Compilation Error
```

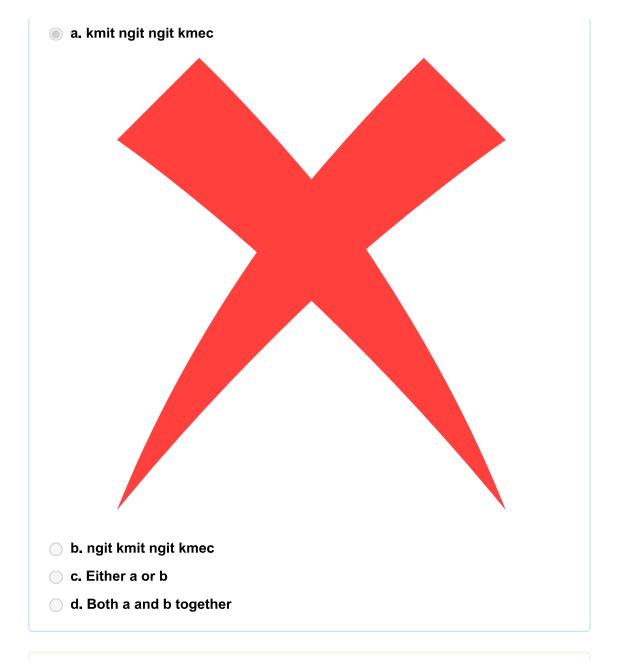
Inner class defined above though, have access to the private variable data of the Outer class, but declaring a variable data inside an inner class makes it specific to the Inner class with no conflicts in term of variable declaration.

The correct answer is: 1020

Incorrect
Mark 0.00 out of
1.00

```
What is the output of the following program?
public class Test implements Runnable
{
          public void run()
          {
                     System.out.printf("kmit ");
                    System.out.printf("ngit ");
          }
          public static void main(String[] args)
          {
                    Test obj = new Test();
                    Thread thread = new Thread(obj);
                    thread.start();
                    System.out.printf("ngit ");
                    try
                    {
                               thread.join();
                    }
                    catch (InterruptedException e)
                    {
                               e.printStackTrace();
                    }
                    System.out.println("kmec");
          }
}
```

Select one:



The correct answer is: Either a or b

Correct

Mark 1.00 out of 1.00

```
What is the output of the following program?
class myThread implements Runnable
{
          public void run()
          {
                    Test.obj.notify();
          }
}
public class Test implements Runnable
{
          public static Test obj;
          private int data;
          public Test()
          {
                    data = 10;
          }
          public void run()
          {
                    obj = new Test();
                    obj.wait();
                    obj.data += 20;
                    System.out.println(obj.data);
          }
          public static void main(String[] args) throws InterruptedException
          {
                    Thread thread1 = new Thread(new Test());
                    Thread thread2 = new Thread(new myThread());
                    thread1.start();
                    thread2.start();
                    System.out.printf(" kmit - ");
          }
}
```

Select one:

a. kmit –



The correct answer is: Compilation error

Correct

Mark 1.00 out of 1.00

A process has been allocated 3 page frames. Assume that none of the pages of the process are available in the memory initially. The process makes the following sequence of page references (reference string): 1, 2, 1, 3, 7, 4, 5, 6, 3, 1 If optimal page replacement policy is used, how many page faults occur for the above reference string?

Select one:

- a. 9
- **b.** 10
- \_ c. 8
- d. 7

**Explanation:** Optimal replacement policy looks forward in time to see which frame to replace on a page fault. 1 23 -> 1,2,3 //page faults 173 -> 7 143 -> 4 153 -> 5 163 -> 6 Total=7 So Answer is A

The correct answer is: 7

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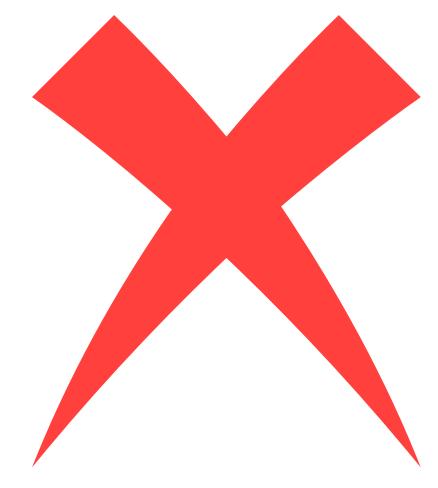
Incorrect

Mark 0.00 out of 1.00

In a system with 32 bit virtual addresses and 1 KB page size, use of one-level page tables for virtual to physical address translation is not practical because of

#### Select one:

a. the large memory overhead in maintaining page tables



- b. the large amount of internal fragmentation
- o. the large amount of external fragmentation
- d. the large computation overhead in the translation process

The correct answer is: the large amount of internal fragmentation

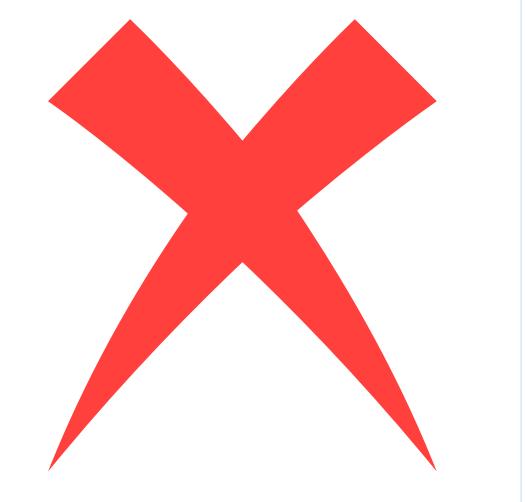
Incorrect

Mark 0.00 out of 1.00

Consider a set of n tasks with known runtimes r1, r2, ... rn to be run on a uniprocessor machine. Which of the following processor scheduling algorithms will result in the maximum throughput?

#### Select one:

- a. Shortest-Job-First
- b. Highest-Response-Ratio-Next
- c. First-Come-First-Served
- d. Round-Robin



The correct answer is: Shortest-Job-First

Correct

Mark 1.00 out of 1.00

A process executes the code

fork();

fork();

fork();

The total number of child processes created is

#### Select one:

- a. 4
- b. 7



#### Explanation:

Let us put some label names for the three lines

```
fork (); // Line 1
fork (); // Line 2
fork (); // Line 3
```

```
L1 // There will be 1 child process created by line 1
/ \
L2 L2 // There will be 2 child processes created by line 2
/ \ \ \
L3 L3 L3 L3 // There will be 4 child processes created by line 3
```

\_ c. 3

\_ d. 8

The correct answer is: 7

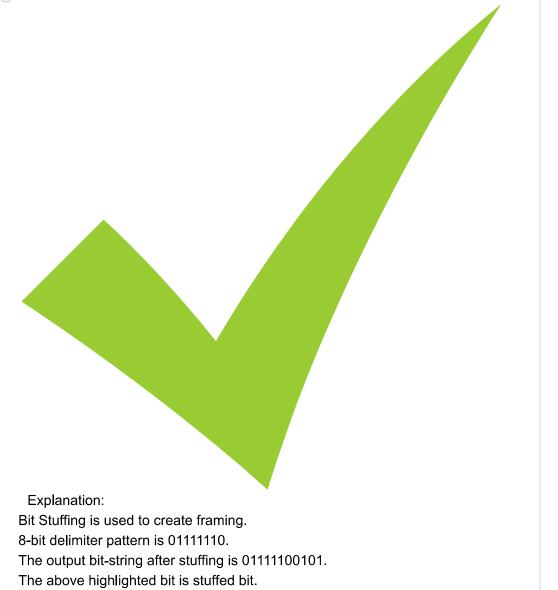
Correct

Mark 1.00 out of 1.00

A bit-stuffing based framing protocol uses an 8-bit delimiter pattern of 01111110. If the output bit-string after stuffing is 01111100101, then the input bit-string is

#### Select one:

- a. 0111111111
- **b.** 0111110100
- c. 0111111101
- d. 0111110101



The correct answer is: 0111110101

So input bit-string must be 011111010

Correct

Mark 1.00 out of 1.00

Consider the following message M = 1010001101. The cyclic redundancy check (CRC) for this message using the divisor polynomial  $x^5 + x^4 + x^2 + 1$  is :

Select one:



M = 1010001101

Divisor polynomial: 1.x5 +1.x4+0.x3+1.x2+0.x2+1.x0

Divisor polynomial bit= 110101

Bits to be appended to message= (divisor polynomial bits -1) = 5 Append 5 zeros to message bits, modified message: 101000110100000

	0001101	DATE -	
1 1	0 1 0	20	
appendiel	M =  0 000 10	00000	
110101	) 10100011010	00000	
XOR	01110111010	0000	
AUN	(D) 110101	00000	
	9 110101	00000	
	001.	110000	
	⊕11	100100	
	( <del>)</del>	[[1]	- Night
		Make it	i And
		[01170]	
o. 10101 c. 10110			
d. 01011			

The correct answer is: 01110

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