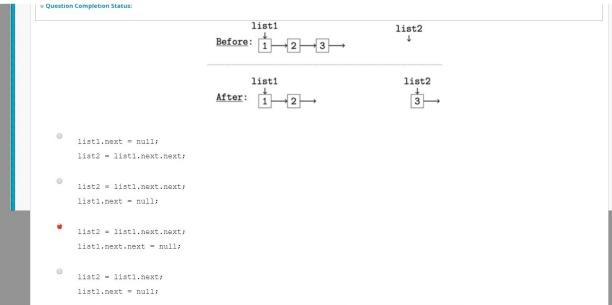
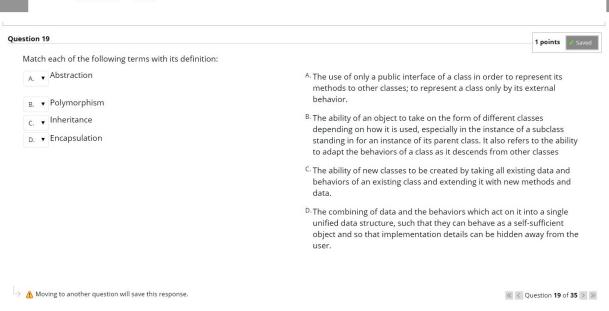


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```
¥ Question Completion Status:
           public class A {
              public String m() { return "A' s m" ; }
           public class B extends A {
               public String n() { return "B' s n" ; }
           public class C extends B {
              public String m( ) { return "C' s m" ; }
          public class D extends A {
               public String m( ) { return "D' s m" ; }
   What is returned by the following? Choose the correct answer for each of the following code segments.
     A. • B b = new B() ;
                                                                         A. A's m
          b.m();
                                                                         B. B's m
     F. • B b = new B() ;
                                                                         C. C's m
          b.n();
                                                                         D. D's m
                                                                         E. A's n
     C. ▼ B b = new C() ;
                                                                         F. B's n
          b.m();
                                                                         G. C's n
     D. \forall D d = new D();
                                                                         H. D's n
          d.m();
```

Choose (more than one) methods should be used when implementing Queue using a linked list?

```
1) insertAtBack removeFromFront() <a>V</a>
```



- 2) insertAtFront() removeFromFront()
- 3) insertAtFront() removeFromBack()

4)

```
What's the output?
public static void mystery(int x, int y){
if(x>y)
System.out.print("*");
else if (x==y)
     System.out.print(y);
     else {
      System.out.print(y+ " ");
      mystery(x+1,y-1);
      System.out.print(" "+x);}}
  public static void main(String[] args) {
     mystery(1,4);}
```

Choose more than one:

super can be used to access instance members (variables/methods) in an immediate parent class super can be used to invoke the constructor of an immediate parent class super can be used to access instance members (variables/methods) in a grandparent class super can be used to invoke the constructor of any grandparent class

Write a single line of code to create a node n with value 10 and the "next" node set to the node containing 3 in x such as shown in the following diagram:

```
int binarySearch(A, int K) { // A in an array of integer
int left=0; right=n-1; while left ≤ right do
  int middle=floor((left+right)/2)
if (K == element at index 'middle' in A)
return middle
else if (K < element at index 'middle' in A)
right = middle-1
else left = middle+1
return -1 }
class Node<T>{
T data:
Node<T> next;}
class NodeList<T> {
  Node<T> firstNode:
  public void method1(T value){
     Node<T> temp=new Node<T>();
     temp.data=value;
    temp.next=firstNode;
    firstNode=temp;}
  public T method2(){
    if (firstNode==null) return null;
    T temp =firstNode.data;
    firstNode=firstNode.next;
    return temp;}
 }
```

Choose: stack, queue, linkedlist

used to store and restore a recursive method and its arguments during the implementation of a recursive call. "Stack"

Typically used to implement a waiting mechanism for a set of processes sharing the same resource, such that the first process added would be the first to access the resource. "queue" The data structure in which we must keep track of two links. linked list

We like to define a hospital system hierarchy. This hierarchy is composed of following classes:

- 1) Patient: patient can be admitted in one room, patient can have many bills to pay.
- 2) Doctor: can treat from 5 to 15 patients
 - 3) Department: have up to 20 doctors.
- 4) Room: can hold up to 3 patients.

Using this information, complete the following UML multiplicity by filling in the blanks with the appropriate values.

Edible is an interface and classes Salad and Fruit both implement Edible

Choose the legal?

- 1) = new Edible ();
- 2) = new Edible ();
- 3) = new Edible ();
- 4) =new Salad() V

Choose one "dependent on another object for its existence? "Compstion"

Line of unnecessary casting? 18 21 و value و value و value و القيمة واذا مالقيتيها رجعي (-1) ميثود وقالوا تستقبل ال head ميثود نفس اللي تو لكن رجعي عدد مرات ظهور القيمة مع افتراض ان اللست != null واول قيمة لها الصفر

ANSWER اوتبوت null or ERORR or اللي طلع

الجافا تسمح بوراثة اكثر من انترفيس True or false: <T,S> is legal? True