

Thank you. Your test submitted.

You have cleared this assessment.

Obtained Percentage Obtained Marks

100 %

20 / 20

Best Attempt Score:100 % on 25-02-2025

What will be the output of the code given below? public class Tester { public static void main(String[] args) { List<String> employees = new ArrayList<String>(); employees.add("Alex"); employees.add("Tom"); employees.add("Sam"); employees.add("john"); employees.add("Jack"); updateEmployee(employees); for (String employee: employees) { System.out.print(employee+" "); Warning public static void updateEmployee(List<String> employees) This operation is disabled. String[] newEmployees = { "John", "Jack", "Robert" for (int counter = 0; counter <= newEmployees.lengt if (!employees.contains(newEmployees[counte employees.add(counter + 1, newEmplo Ok

- Alex Tom Sam Robert Steve john Jack
 Alex Tom Sam Robert Steve
- Alex John Tom Robert Steve Sam John Jack
- Alex Tom Sam john Jack

Choose the correct option based on the execution of the code given below.

```
public class Tester {
       public static void main(String[] args) {
                Deque<String> brands = new ArrayDeque<String>();
                brands.add("Apple");
                brands.add("Samsung");
                brands.add("One Plus");
                brands.add("Nokia");
                brands.add("Blueberry");
                brands.poll();
                brands.add("Microsoft");
                brands.element():
                brands.peek();
                brands.remove();
                for (String brand: brands) {
                        System.out.println(brand);
```

Warning

This operation is disabled.

Ok

- O 2 brands will be displayed
- 3 brands will be displayed
- 4 brands will be displayed
- 5 brands will be displayed

What will be the output of the code given below? Assumption: Stack class is already implemented with all the required methods. public class Tester (public static void main(String args[]) { Stack stack = new Stack(10); stack.push(11); stack.push(19); stack.push(18); stack.push(20); stack.push(15); stack.push(13); stack.push(17); System.out.println(operate(stack)); public static int operate(Stack stack) { int value = 0; while (!stack.isEmpty()) { Warn if (stack.peek() % 2 != 0) { value += stack.pop(); This or stack.pop();) else { stack.pop(); return value; Visit For More Solutions: https://github.com/DevGoyalG/NIET-Infosys-Springboard The code will result in an infinite loop

What will be the output of the code given below?

Assumption: LinkedList class is already implemented with all the required methods.

```
public class Tester {
       public static void main(String args[]) {
                LinkedList list = new LinkedList();
                list.addAtEnd("11");
                list.addAtEnd("13");
                list.addAtEnd("18");
                list.addAtEnd("34");
                list.addAtEnd("46");
                operate(list);
                list.display();
       public static void operate(LinkedList list ) {
                Node temp = list.getHead();
                while (temp.getNext().getNext() != null) {
                        temp.setData(temp.getNext().getData());
                        temp = temp.getNext();
```

Warning

This operation is disabled.

Ok

- 0 11->13->18->34->46
- 13->13->34->34->46
- 11->13->18->34->34
- 13->18->34->34->46

What will be the output of the code given below?

```
public class Tester (
        public static void main(String args[1) {
                Map<Integer, Integer> hashMap = new HashMap<Integer, Integer>();
                for (int counter1 = 0; counter1 <= 5; counter1++) {
                        for (int counter2=5; counter2>=1; counter2--) {
                                hashMap.put(counter1,counter2);
                System.out.println(hashMap);
```

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- Compilation error as duplicate key cannot be added
- {0=1, 1=1, 2=1, 3=1, 4=1, 5=1}
- {0=5, 1=4, 2=3, 3=2, 4=1, 5=0}
- {0=5, 1=5, 2=5, 3=5, 4=5, 5=5}

Warning

This operat

Consider an array, $arr = \{12, 16, 17, 19, 23, 35, 40\}$.

How many iterations are required to search 23 using binary search algorithm?

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- 00
- O 2
- 3
- 04

Warning

How many minimum numbers of stacks are needed to implement a queue?

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- 01
- 2
- 0
- O It is not possible to implement a queue using stack

Warning

```
What will be the output of the code given below?
Assumption: Stack class is already implemented with all the required methods.
public class Tester {
       public static void main(String args[]) {
               Stack stack = new Stack(10);
               stack.push(18);
               stack.push(10);
               stack.push(24);
               stack.push(56);
               stack.push(27);
               operate(stack);
               stack.display();
                                                                   Warning
       public static void operate(Stack stack) {
                                                                   This operation is disabled
               for (int i = 0; i <= 2; i++) {
                      if (stack.pop() % 3 == 0) {
                              int temp = stack.pop();
                              stack.push(++temp);
                                                                                         Ok
                              stack.push(++temp);
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 (Top -> Bottom) 26 25 10 18
     (Top -> Bottom) 24 25 10 18
     (Top -> Bottom) 56 26 25 10 18
    (Top -> Bottom) 57 56 24 2518
```

What will be the output of the code given below? public class Tester { public static void main(String args[]) { List<Integer> elements = new LinkedList<Integer>(); elements.add(1); elements.add(2); elements.add(3); elements.add(4); elements.add(5); elements.add(6); elements.remove(1); elements.add(3, 34); elements.set(5, 15); System.out.println(elements); Visit For More Solutions: https://github.com/DevGoyalG/NIET-Infosys-Springboard [1, 3, 4, 34, 5, 15] O [2, 3, 4, 34, 5, 15]

(2, 3, 4, 34, 15, 6)

[1, 3, 4, 34, 15, 6]

Which of the asymptotic notations is used to represent the best-case analysis of an algorithm?	
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 Big Theta Big Omega Big Oh There is no asymptotic notation for representing best-case analy 	Warning

What is the time complexity of the code given below?

```
int number1 = 0, counter = 10;
while (counter > 0) {
   number1+=counter;
   counter/=2;
}
```

- O 0(n)
- O(sqrt(n))
- O(n/2)
- O(log n)

```
Choose the correct option based on the execution of the code given below.
public class Tester {
        public static void main(String args[]) {
                List<Integer> elements = new LinkedList<Integer>();
                elements.add(10);
                elements.add(12);
                elements.add(33);
                elements.add(44);
                elements.add(75);
                elements.add(67);
                int temp = 0;
                int sum = \theta;
                for (int element : elements) {
                        temp = element;
                                                                      Warning
                        while (temp != 0) {
                                sum += temp % 10;
                                                                      This operation is dis
                                temp = temp / 10;
                        if (sum % 2 == 0) {
                                System.out.println("Infosys");
         Visit For More Solutions: https://github.com/DevGoyalG/NIET-Infosys-Springboard
     "Infosys" will be displayed 4 times
     "Infosys" will be displayed 3 times
     The code will result in an infinite loop
     "Infosys" will be displayed 2 times
```

What will be the output of the code given below? public class Tester { public static void main(String[] args) { Set<String> linkedHashSet = new LinkedHashSet<String>(); linkedHashSet.add(new String("A")); linkedHashSet.add(new String("B")); linkedHashSet.add(new String("C")); linkedHashSet.add(new String("C")); linkedHashSet.add(new String("E")); linkedHashSet.add(new String("D")); linkedHashSet.add(new String("E")); linkedHashSet.add(null); Warning linkedHashSet.add(new String("E")); Object[] elements = linkedHashSet.toArray(); This opera for (Object element : elements) System.out.print(element + " ");

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A B C E D null
 A B C D null E
 A B C C E D E null E
 Compilation error as null cannot be added

```
What will be the output of the code given below?
 class Tester{
         public static void main(String args[]){
                 char arr[]=new char[4];
                 arr[0]='A';
                 arr[1]='5';
                 arr[2]='D';
                 arr[3]='F';
                 ArrayTest.insert(arr, 4, 'J');
                 for(int index=0;index<arr.length;index++)</pre>
                         System.out.println(arr[index]);
                                                                      W
 ArrayTest class is given below.
                                                                      Th
 class ArrayTest {
         public static void insert(char[] ar, int pos, char val){
                 for(int index=ar.length-1;index>=pos;index--) {
                         ar[index]=ar[index-1];
                 ar[pos-1]=val;
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  ( ASD)
      Error: ArrayIndexOutOfBoundsException
```

Choose the correct option based on the execution of the code given below.

```
public class Tester {
        public static void main(String args[]) {
               Map<String, Integer> studentDetails = new HashMap<String, Integer>();
                studentDetails.put("Max", 337);
                studentDetails.put("Stocks", 480);
                studentDetails.put("Malinda", 570);
                studentDetails.put("Mathew", 640);
                studentDetails.put("Max", 340);
                if (studentDetails.replace("stocks", 480, 650)) {
                       studentDetails.remove("Max");
                } else {
                        studentDetails.put("Sam", 490);
                                                                      Warning
               System.out.println(studentDetails);
                                                                      This operation is disabled.
```

Ok

- studentDetails will have 6 key-value pairs
- O studentDetails will have 4 key-value pairs
- studentDetails will have 5 key-value pairs
- O Compilation error as duplicate key cannot be added

Which of the given algorithmic approach tries to achieve a localized optimum solution? Visit For More Solutions: https://github.com/DevGoyalG/NIET-Infosys-Springboard O Dynamic programming O Divide and conquer

Brute force

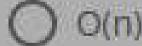
Greedy approach

What is the time complexity of bubble sort algorithm?

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0 0(1)

What will be the output of the code given below?

```
public class Tester {
        public static void main(String[] args) {
                Set<String> treeSet = new TreeSet<String>();
                treeSet.add(new String("A"));
                treeSet.add(new String("B"));
                treeSet.add(new String("C"));
                treeSet.add(new String("C"));
                treeSet.add(new String("E"));
                treeSet.add(new String("D"));
                treeSet.add(new String("a"));
                treeSet.add(new String("F"));
                Object[] elements = treeSet.toArray();
                for (Object element : elements)
                        System.out.print(element + " ");
```

- AaBCDEF
- ABCCEDaF
- ABCEDaF
- ABCDEFa

What is the best-suited condition for using linear search algorithm?

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- O When the array is sorted
- When the array contains huge number of elements
- When the array contains only Integer elements
- When the array contains only few elements

Warning

```
What will be the output of the code given below?
Assumption: Queue class is already implemented with all the required methods.
public class Tester {
       public static void main(String args[]) {
               Queue queue = new Queue(10);
               operate(queue);
               queue.display();
       public static void operate(Queue queue) {
               int[] numbers = { 12, 18, 17, 16, 28, 34, 36 };
               int count = 6;
               for (int number: numbers) {
                       if (count == 0) {
                                                                    Warning
                               break;
                                                                    This operation is disable
                       if (number%count == 0) {
                               queue.enqueue(number);
                       --count;
                                                                                          Ok
            Visit For More Solutions: https://github.com/DevGoyalG/NIET-Infosys-Springboard
     (Front -> Rear) 12 16 28 34
    (Front -> Rear) 12 28 34 36
    (Front -> Rear) 12 28 34
    (Front -> Rear) 12 18 17 16 28 34 36
```