

Started on	Sunday, 9 March 2025, 3:01 PM
State	Finished
Completed on	Sunday, 9 March 2025, 3:04 PM
Time taken	2 mins 48 secs
Marks	4.00/5.00
Grade	80.00 out of 100.00

Question

1

Complete

Mark 1.00 out of 1.00

How to create newNode in single Linke list Dynamically?

Select one:

- ☐ a. **Node newNode = new Node(int value);**
- ☐ b. **Node *newNode = new Node();**
- ☒ c. **Node *newNode = new Node(value);**
- ☐ d. **None**

Question

2

Complete

Mark 1.00 out of 1.00

If you are adding a new node at the end of the list, which condition would you use to traverse the list?

Select one:

- ☐ a. **while (temp->next == nullptr)**
- ☒ b. **while (temp->next != nullptr)**
- ☐ c. **while (temp->data != nullptr)**
- ☐ d. **while (temp != nullptr)**

Question 3

Complete

Mark 1.00 out of
1.00

What is the Output of the following code

```
void display() {  
    Node *temp = head;  
    while (temp!= nullptr) { // Fix: iterate until temp is nullptr  
        cout << temp->data << " -> ";  
        temp = temp->next;  
    }  
    cout << "NULL" << endl;  
}  
  
int main()  
{  
    SLL slist;  
    slist.add(10);  
    slist.add(20);  
    slist.add(30);  
    slist.display();  
    return 0;  
}
```

Select one:

- ☐ a. 10 -> 20 -> NULL
- ☐ b. 10 -> 30 -> NULL
- ☒ c. 10 -> 20 -> 30 -> NULL
- ☐ d. 10 -> 20 -> 30

Question 4

Complete

Mark 1.00 out of
1.00

In which of the following cases is using a linked list more beneficial than an array?

Select one:

- ☒ a. When dynamic memory allocation is required.
- ☐ b. When the size of the data structure is fixed.
- ☐ c. When memory space is continuous.
- ☐ d. When elements need to be accessed frequently by index.

Question 5

Complete

Mark 0.00 out of
1.00

Output of the following code

```
void display() {  
  
    Node *temp = head;  
  
    while (temp->next!= nullptr) {  
        cout << temp->data << " -> ";  
  
        temp = temp->next;  
  
    }  
  
    cout << "NULL" << endl;  
  
int main()  
{  
  
    SLL slist;  
    slist.add(10);  
  
    slist.add(20);  
  
    slist.add(30);  
  
    slist.display();  
    return 0;  
  
}
```

Select one:

- ☒ a. 10 -> 20 -> 30 -> NULL
- ☐ b. 10 -> 30 -> NULL
- ☐ c. 10 -> 20 -> NULL
- ☐ d. 10 -> 20 -> 30