```
void Stack::push(int _value)
 StackNode* temp = new StackNode(); 1
 temp->data = _value; 1
 if (isEmpty()) 1
  {
       temp->next = tail; 1
       head = temp; 1
       tail = temp; 1
  }
  else 0
 {
    tail->next = temp; 1
    tail = temp; 1
 }
}
With if condition:
       2 + 4 = 6 steps
With else condition:
       2 + 3 = 5 steps
MAX: 6
Repetition: n
6*n = 6n \rightarrow O(n)
```

```
n = count of members
int Stack::pop()
if (isEmpty()) 1
 {
    cout << "Stack is empty!!!" << endl; 1</pre>
    exit(1); 1
 }
  else 0
  {
    StackNode* temp; 0
    temp = head; 1
    int value; 0
    if (head == tail) 1
    {
      value = head->data; 1
      delete head; 1
      head = NULL; 1
      tail = NULL; 1
       return value; 1
    }
    while (temp->next != tail ) n (one more time than n-1)
                              n-1 (from head(member 0) to member before tail(member n-2))
       temp = temp->next;
```

```
tail = temp; 1
temp = temp->next; 1
tail->next = NULL; 1
value= temp->data; 1
delete temp; 1
return value; 1
 }
}
With if condition:
       3 steps
With else condition:
       With inner if condition:
              2 + 6 = 8 steps
       Without inner if condition:
              2 + 2n + 6 = 2n + 8 steps
MAX: 2n + 8
Repetition: n
(2n +8) * n = 2n^2 + 8n \rightarrow O(n^2)
```