



Experiment-3: Linked Lists

Student Name: SANSKAR AGRAWAL UID: 20BCS5914

Branch: CSE Section/Group: 806/B Semester: 5th Subject Name: CC Lab

- 1. Aim/Overview of the practical: Compare Two Linked Lists Problem
- 2. Which logistics were used: Hacker rank

```
3. Code: bool compare_lists(SinglyLinkedListNode* head1,
SinglyLinkedListNode* head2) { while(head1->next!=NULL && head2>next!=NULL)
{
    if(head1->data!=head2->data)
    {
        return false;
    }
    head1=head1->next; head2=head2>next;
}

if(head1->next!=NULL || head2->next!=NULL)
{
    return false;
}
else
{
    return true;
}
```

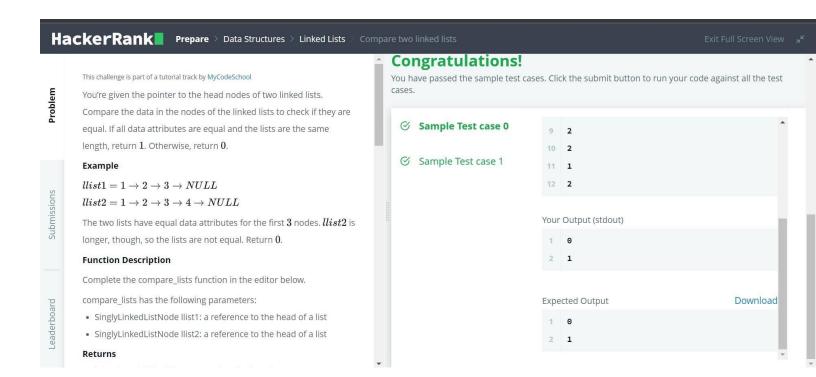


}





4. Output:







1. Aim/Overview of the practical: Cycle Detection Problem

2. <u>Code:</u>

```
bool has_cycle(SinglyLinkedListNode* head) {
  SinglyLinkedListNode *t = head; SinglyLinkedListNode
*r = head;
if(head == NULL | | head->next==NULL)
  return false;
while( r!=NULL&&r->next!=NULL)
\{ t = t->next; r = r>next->next; \}
if(t==r)
// Condition 3
  {
    return true;
break;
  }
}
return false;
}
```







Output:

