

## Solution 2<sup>nd</sup> Day March Ques- 8

Love Babbar:450 DSA QUES

1. <https://practice.geeksforgeeks.org/problems/first-and-last-occurrences-of-x3116/1>

```
vector<int> find(int arr[], int n , int x )
```

```
{
    // code here
    vector<int>res;int f=0;
    int start=INT_MAX,end=INT_MIN;
    for(int i=0;i<n;i++){
        if(arr[i]==x){
            start=min(start,i);
            end=max(end,i);f=1;
        }
    }
    if(f==0)
    {
        start=-1;
        end=-1;
    }
    res.push_back(start);
    res.push_back(end);return res;
}
```

2. <https://practice.geeksforgeeks.org/problems/union-of-two-arrays3538/1>

```
public static int doUnion(int a[], int n, int b[], int m)
```

```
{
    //Your code here
    HashSet<Integer> s=new HashSet<>();
```

```
        HashSet<Integer> s=new HashSet<>();
```

```
        for(int i=0;i<n;i++)
```

```
            s.add(a[i]);
```

```
        for(int i=0;i<m;i++)
```

```

        s.add(b[i]);

        return s.size();
    }

```

3. <https://www.geeksforgeeks.org/reverse-a-linked-list/>

```

class ReverseLL
{
    // This function should reverse linked list and return
    // head of the modified linked list.
    Node reverseList(Node head)
    {
        Node prev=null,cur=head,next=null;
        while(cur!=null){
            next=cur.next;
            cur.next=prev;
            prev=cur;cur=next;
        }
        return prev;
    }
}

```

4. <https://practice.geeksforgeeks.org/problems/reverse-a-linked-list-in-groups-of-given-size/1>

```

class Solution
{
    public static Node reverse(Node node, int k)
    {
        //Your code here
        Node cur=node,prev=null,next=null;
        int temp=k;
        while(temp>0&&cur!=null){temp--;
            next=cur.next;

```

```

        cur.next=prev;

        prev=cur;

        cur=next;
    }if(node!=null)
    {
        node.next=reverse(next,k);
    }
    return prev;
}
}

```

5. <https://practice.geeksforgeeks.org/problems/spirally-traversing-a-matrix-1587115621/1>

Basics Coding Question:

6. <https://practice.geeksforgeeks.org/problems/mean0021/1>

class ReverseLL

```

{
    // This function should reverse linked list and return
    // head of the modified linked list.
    Node reverseList(Node head)
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        while(cur!=null){
            next=cur.next;
            cur.next=prev;
            prev=cur;cur=next;
        }
        return prev;
    }
}
}

```

7. <https://practice.geeksforgeeks.org/problems/number-series3015/1>

class Solution {

```
public:
int findNth(int n){
    // code here

    if(n%2==1)return 0;
    int temp=0;
    while(n%2==0){
        temp++;
        n/=2;
    }
    return temp;
}
};
```

8. <https://www.geeksforgeeks.org/program-to-find-the-roots-of-quadratic-equation/>

Deadline: 9march 11:59pm