

DAY #3

#450 DSA Problem:-

1. <https://practice.geeksforgeeks.org/problems/cyclically-rotate-an-array-by-one2614/1>

```
void rotate(int arr[], int n)
```

```
{
```

```
    int temp=arr[n-1];
```

```
    for(int i=n-1;i>=1;i--){
```

```
        arr[i]=arr[i-1];
```

```
    }
```

```
    arr[0]=temp;
```

```
}
```

2. <https://leetcode.com/problems/reverse-string/>

```
class Solution {
```

```
    public void reverseString(char[] s) {
```

```
        int i=0;
```

```
        int j=(s.length)-1;
```

```
        while(i<j){
```

```
            char c=s[j];
```

```
            s[j]=s[i];
```

```
            s[i]=c;
```

```
            j--;i++;
```

```
        }
```

```
    }
```

```
}
```

3. <https://practice.geeksforgeeks.org/problems/palindrome-string0817/1>

```
class Solution {
```

```
    int isPlaindrome(String S) {
```

```
        // code here
```

```

int i=0;
int j=S.length()-1;
while(i<j){
    if(S.charAt(i)!=S.charAt(j))return 0;
    i++;
    j--;
}
return 1;
}
};

```

4. <https://practice.geeksforgeeks.org/problems/value-equal-to-index-value1330/1>

```

class Solution {
    ArrayList<Integer> valueEqualToIndex(int arr[], int n) {
        // code here
        ArrayList<Integer>ar=new ArrayList<>();
        for(int i=0;i<n;i++)
        {
            if(arr[i]==i+1)
                ar.add(arr[i]);
        }
        return ar;
    }
}

```

5. <https://practice.geeksforgeeks.org/problems/detect-loop-in-linked-list/1>

```

class Solution {
    public static boolean detectLoop(Node head){
        Node fast=head,slow=head;
        while((fast.next!=null)&&(fast.next.next!=null)){

            fast=fast.next.next;
            slow=slow.next;

```

```

        if(fast==slow)return true;
    }
    return false;

}
}

```

Basics Problem: -

6. <https://practice.geeksforgeeks.org/problems/find-prime-numbers-in-a-range4718/1>

```

class Solution {
    boolean checkPrime(int n)
    {
        if(n==1)return false;
        if(n<=3)return true;
        if(n%2==0)return false;
        for(int i=3;i<=n;i++)
        {
            if(n%i==0)return false;
        }return true;
    }
    ArrayList<Integer> primeRange(int M, int N) {
        // code here
        ArrayList<Integer>ar=new ArrayList<>();
        for(int i=M;i<=N;i++)
        {
            if(checkPrime(i))
            {
                ar.add(i);
            }
        }
        return ar;
    }
}

```

```
}  
}
```

7. <https://practice.geeksforgeeks.org/problems/reverse-digit0316/1>

class Solution

```
{  
    public:  
        long long int reverse_digit(long long int n)  
        {  
            // Code here  
  
            long long int res=0;  
            while(n){  
                res=res*10+n%10;  
                n/=10;  
            }  
            return res;  
        }  
};
```

8. <https://practice.geeksforgeeks.org/problems/lower-case-to-upper-case3410/1>

class Solution

```
{  
    String to_upper(String str)  
    {  
        // code here  
        StringBuilder res =new StringBuilder();  
        for(int i=0;i<str.length();i++)  
        {  
            res.append((char)(str.charAt(i)-32));  
        }  
        return res.toString();  
    }  
}
```

}

}

Deadline: 10march