***DAY1***

1)Does not contain any vowel more than one.

If two S then no T in between them

CODE:

**import java.util.\*;**

**public class Main**

**{**

**public static void main(String[] args) {**

**Scanner s=new Scanner(System.in);**

**String name=s.next();**

**int arr[]={0,0,0,0,0};**

**int checkS=0, checkS1=0, checkS2=0;**

**for(int i=0;i<name.length();i++)**

**{**

**if(name.charAt(i)=='a')**

**arr[0]++;**

**else if(name.charAt(i)=='e')**

**arr[1]++;**

**else if(name.charAt(i)=='i')**

**arr[2]++;**

**else if(name.charAt(i)=='o')**

**arr[3]++;**

**else if(name.charAt(i)=='u')**

**arr[4]++;**

**else if(name.charAt(i)=='S')**

**{**

**checkS++;**

**if(checkS1==0)**

**checkS1=i+1;**

**else**

**checkS2=i+1;**

**}**

**}**

**for(int i=0;i<5;i++)**

**{**

**if(arr[i]>1)**

**{**

**System.out.println("name is not valid1");**

**return;**

**}**

**}**

**if(checkS<2)**

**{**

**System.out.println("valid");**

**return;**

**}**

**else**

**{**

**for(int i=checkS1;i<checkS2-1;i++)**

**{**

**if(name.charAt(i)=='T')**

**{**

**System.out.println("not valid");**

**return;**

**}**

**}**

**System.out.println("name is valid 2");**

**}**

**}**

**}**

2) Swap first and last digit of a number

CODE

**#include<bits/stdc++.h>**

**using namespace std;**

**int main()**

**{**

**int n;**

**cin>>n;**

**int last=n%10, m=0, first=0;**

**while(n>0)**

**{**

**first=n%10;**

**m=(m\*10)+first;**

**n=n/10;**

**}**

**n=n+last;**

**m/=10;**

**while(m>0)**

**{**

**if(m<10)**

**break;**

**n=(n\*10)+(m%10);**

**m=m/10;**

**}**

**n=(n\*10)+first;**

**cout<<n;**

**}**

3) Largest digit less than N whose each digit is a prime number.

#include<iostream>

using namespace std;

int main(){

int n;

cin>>n;

int flag=0;

while(n){

flag=0;

int temp=n;

while(temp){

int rem=temp%10;

temp=temp/10;

if(rem==2 || rem==3 || rem==5 || rem==7){}

else {

flag=1;

temp=0;

}

}

if(flag==1)

n--;

else break;

}

cout<<n;

}

4) Valid Url

CODE

5) Program to find smallest number divisible by all number between 1 and 9

CODE:

**#include<iostream>**

**using namespace std;**

**int main()**

**{**

**int num =9;**

**while(1)**

**{**

**if(num%2==0 && num%3==0 && num%4==0 && num%5==0 && num%6==0 && num%7==0 && num%8==0 && num%9==0)**

**break;**

**else num++;**

**}**

**cout<<num;**

**}**