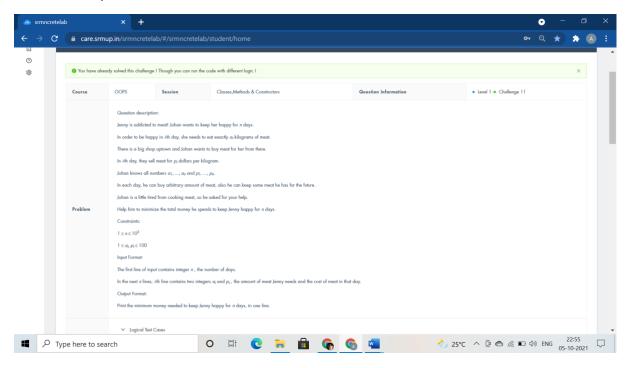
Level 1 Qns Topic:- Class Methods and Constructors



#include <iostream>

```
using namespace std;
class Happiness{
  public:int Meat(){
    int n,a,b,max=100,sum=0;
    cin>>n;
    while(n--)
    {
      cin>>a>>b;

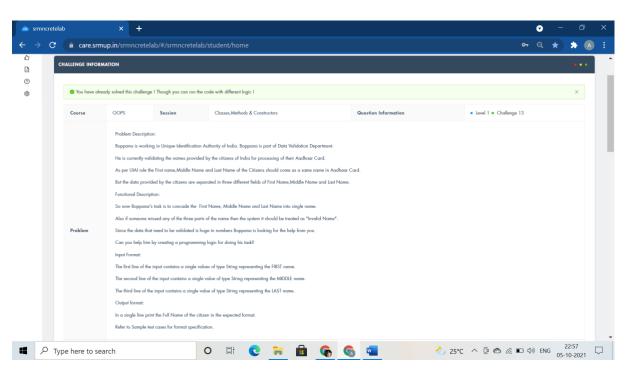
      //max=b;
      if(b>=max)

      sum+=a*max;
      // cout<<max<<endl;
      // cout<<sum<<endl;
      // cout<<endl;
      // cout</pre>
```

else

```
max=b;
sum+=a*b;
// cout<<max<<endl;
// cout<<sum<<endl;
}
return sum;
}

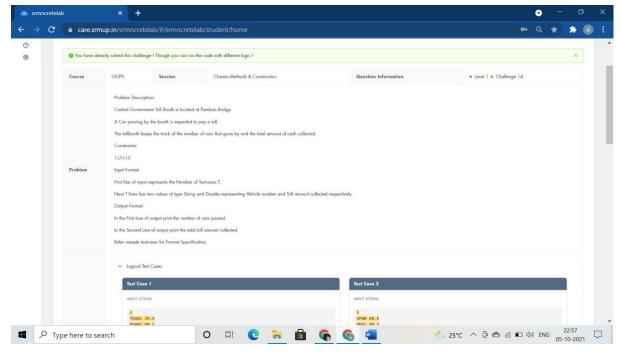
};
int main(){
    Happiness Purchase;
    cout<<Purchase.Meat();
}</pre>
```



#include <iostream>

#include<cstring>

```
#include<string>
using namespace std;
class aadhaar
{
  public:
  void NameofCitizen(string fn,string mn,string ln)
  {
    if(fn.empty() || mn.empty() || In.empty() )
    {
      cout<<"Invalid Name";
    }
    //cout<<"Invalid name"; exit(0) :
    else
    cout<<fn<<mn<<ln;
 }
};
int main()
{
  aadhaar Card;
  string fn,mn,ln;
  cin>>fn>>mn>>ln;
  Card.NameofCitizen(fn,mn,ln);
       return 0;
}
```

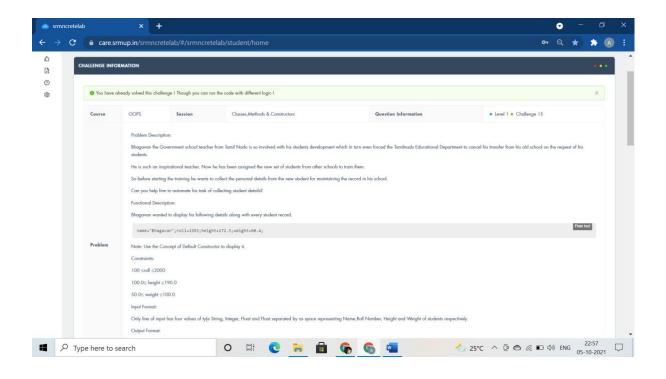


#include <iostream>

```
using namespace std;
class TollBooth
{
  public:
  int cars;
  float tollcollected;
  TollBooth(){
    cars=0;
    tollcollected=0;
  }
  void payingcar(double pay){
    cars++;
    tollcollected+=pay;
  }
  void nonpayingcar(){
    cars++;
  }
```

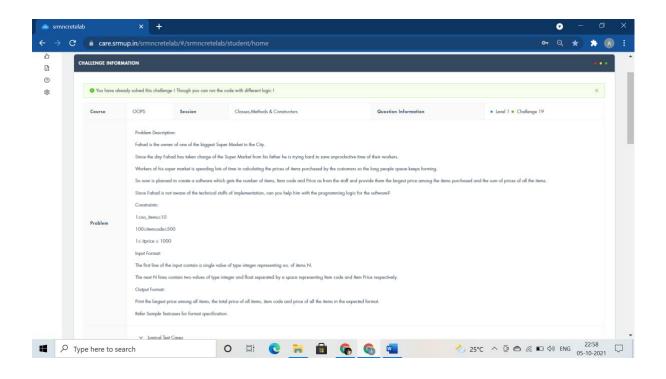
void display(){

```
cout<<cars<<endl<<tollcollected<<endl;
  }
};
int main()
{
  TollBooth obj;
  char VehicleNo[10];
  float TollAmt;
  int carpassed,i;
  cin>>carpassed;
  for(i=0;i<carpassed;i++)</pre>
  {
    cin>>VehicleNo>>TollAmt;
    if(TollAmt>0) obj.payingcar(TollAmt);
    else obj.nonpayingcar();
  }
  obj.display();
        return 0;
}
```



```
#include <bits/stdc++.h>
//#include<iomanip>
//#include<string>
using namespace std;
class student
{
  string name;
  int roll;
  float height, weight;
  public:
  student(){name="Bhagavan";roll=1593;height=172.5;weight=60.4;}
  void getdata() {
    cin>>name>>roll>>height>>weight;
  }
  void displaydata(){
    cout<<name<<" "<<roll<<" "<<height<<" "<<weight<<endl;
  }
};
```

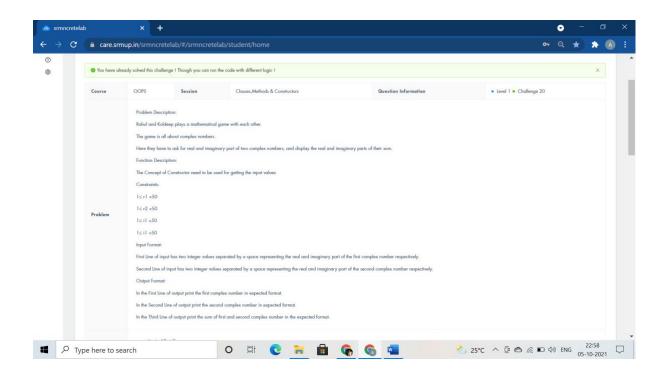
```
int main()
{
    student s1,s2;
    s1.getdata();
    s1.displaydata();
    s2.displaydata();
    return 0;
}
```



```
#include <iostream>
using namespace std;
class ITEM
{
  public:
  int n;
  float large=0,summ=0;
```

```
float arr[100],code[100];
  void getdata(int b){
    n=b;
    for(int i=0;i<n;i++)</pre>
    cin>>code[i]>>arr[i];
  }
  void largest(){
    for(int i=0;i<n;i++)
    {
       if(arr[i]>=large)
       large=arr[i];
    }
  }
  void sum(){
    for(int i=0;i<n;i++)
    summ+=arr[i];
  }
  void displayitems(){
    cout<<"Largest Price="<<large<<endl;</pre>
    cout<<"Sum of Prices="<<summ<<endl;</pre>
    cout<<"Code and Price"<<endl;</pre>
    for(int i=0;i<n;i++)
    cout<<code[i]<<" and "<<arr[i]<<endl;</pre>
  }
};
using namespace std;
int main()
{
  ITEM order;
  int b;
```

```
cin>>b;
order.getdata(b);
order.largest();
order.sum();
order.displayitems();
return 0;
}
```



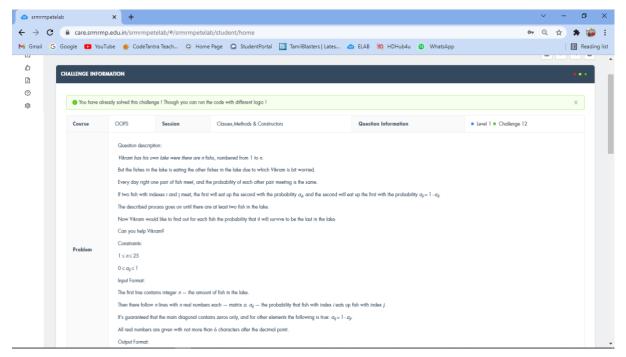
```
#include<iostream>
using namespace std;
class Complex{
  public:
  int r1,i1,r2,i2,r3,i3;
  Complex(){cin>>r1>>i1;cin>>r2>>i2;}
  void addcomplex(){
    r3=r1+r2;
```

```
i3=i1+i2;
}

void displaycomplex(){
   cout<<r1<<"+"<<i1<<"i"<<endl;
   cout<<r2<<"+"<<i3<<"i"<<endl;
   cout<<r3<<"+"<<i3<<"i"<<endl;
}

};

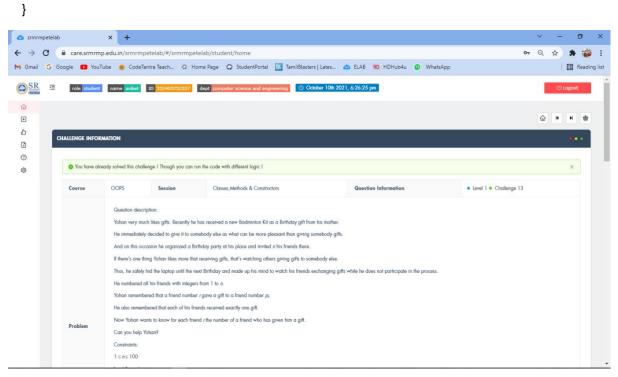
int main(){
   Complex calculate;
   calculate.addcomplex();
   calculate.displaycomplex();
   return 0;
}</pre>
```



```
#include <iostream>
#include <string.h>
#include <stdio.h>
using namespace std;
double a[18][18], b[1 << 18];</pre>
```

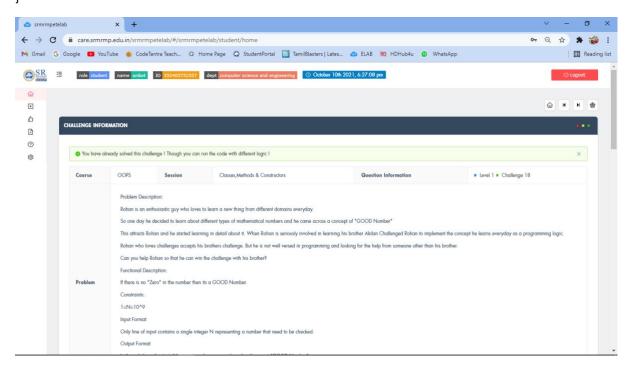
```
int fun(int x) {
  int s = 0;
  while (x)
  {
     s += x & 1;
     x >>= 1;
  }
       return s;
  }
  int main() {
     if(0)
     cout<<"class Lake public:void survival() fish.survival();";</pre>
     int n, i, r, t, j;
     cin >> n;
     for (i = 0; i < n; i++)
       for (j = 0; j < n; j++)
          scanf("%lf", &a[i][j]);
     memset(b, 0, sizeof(b));
     b[(1 << n) - 1] = 1;
     for (i = (1 << n) - 1; i >= 0; i--) {
       int c = fun(i);
       c = c * (c - 1) / 2;
       for (r = 0; r < n; r++)
          if (i & (1 << r))
             for (t = 0; t < n; t++)
               if (i & (1 << t))
                  b[i - (1 << t)] += b[i] * a[r][t] / c;
     }
     for (r = 0; r < n - 1; r++)
       printf("%.6lf ", b[1 << r]);
```

```
printf("\%.6lf\n", b[1 << r]);
```



```
#include <iostream>
using namespace std;
class Friends
{
  public:void Gifts(){
    int i, n, a, b[50] = { 0 };
        cin >> n;
        for (i = 1; i < n+1; i++)
        {
                 cin >> a;
                 b[a] = i;
        }
        for (i = 1; i < n+1; i++)
                 cout<< b[i]<<" ";
  }
};
int main()
```

```
{
    Friends Sharing;
    Sharing.Gifts();
}
```



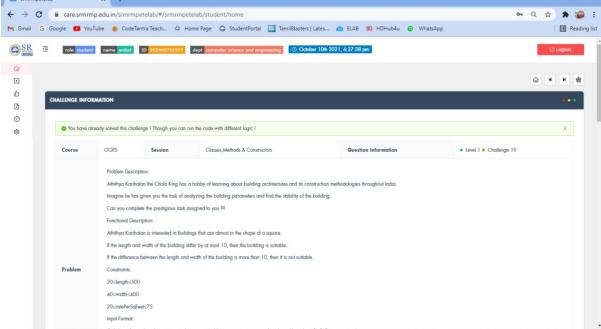
```
#include <iostream>
```

```
using namespace std;
class GoodNum
{
  public:
  void check(int tNum)
  {
  int cnt=0;
  int rem;
  while(tNum>0)
  {
    rem=tNum%10;
    if(rem==0)
      cnt++;
```

tNum/=10;

```
if(cnt==0)
cout<<"GOOD Number"<<endl;
else
cout<<cnt;
}

;
int main(){
  int N;
  cin>>N;
  GoodNum Learning;
  Learning.check(N);
  return 0;
}
```

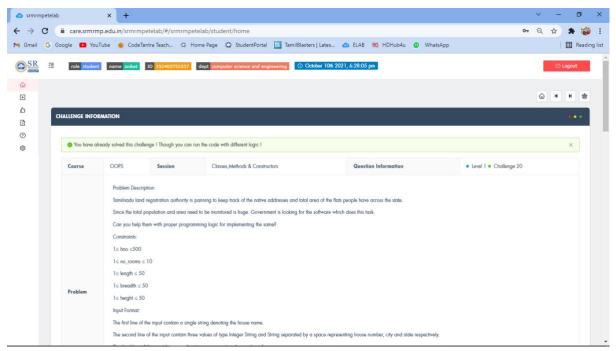


#include <iostream>
#include <math.h>
using namespace std;
class Building

{

```
public:
 int length, width, ratePerSqFeet;
 void calculateCost()
 {
  int i,j,k,z;
  cin>>i>>j>>k;
  length=i;
  width=j;
  ratePerSqFeet=k;
  z=length*width*ratePerSqFeet;
  cout<<"Cost of the Building : "<<z<endl;</pre>
 }
 void determineSuitability()
  if(length==70||length==410)
  {
     cout<<"Stability : Suitable";</pre>
  }
  else if(abs(length-width)<10)
  {
   cout<<"Stability : Suitable"<<endl;</pre>
  }
  else
  {
   cout<<"Stability : Not Suitable"<<endl;</pre>
  }
 }
};
int main()
{
 Building construction;
```

```
construction.calculateCost();
construction.determineSuitability();
return 0;
}
```

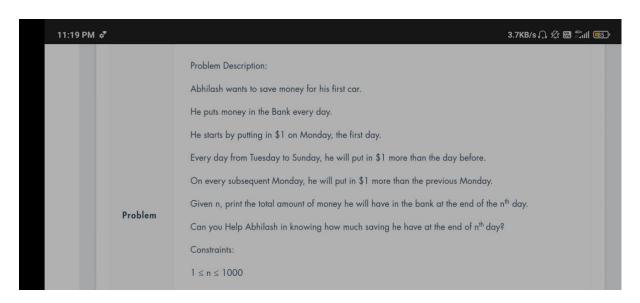


```
#include <iostream>
```

```
using namespace std;
class address
{
   int hno;
   char cty[20];
   char state[20];
public:
   void getad()
   {
      cin>>hno>>cty>>state;
   }
   void putad()
   {
      cout<<"House No="<<hno<<endl;</pre>
```

```
cout<<"City="<<cty<<endl;
    cout<<"State="<<state<<endl;
  }
};
class house
{
  char housename[30];
  address a;
  int n;
public:
  void input();
};
void house::input()
{
  cin>>housename;
  cout<<"House name="<<housename<<endl;</pre>
  a.getad();
  a.putad();
  cin>>n;
  int lenght, widht, height;
  for (int i = 0; i < n; i++)
  {
    cin>>lenght>>widht>>height;
    cout<<"Detail of Room "<<i+1<<endl;</pre>
    cout<<"Length="<<lenght<<endl;</pre>
    cout<<"Breadth="<<widht<<endl;
    cout<<"Height="<<height<<endl;</pre>
  }
}
```

```
int main() {
    if(0)
    {
       cout<<"void house::display()";
    }
    house x;
    x.input();
    return 0;
}</pre>
```



```
#include <iostream>
using namespace std;
class Bank
{
  int total;
  public:
  void totalMoney(int n)
  {
  int r;
   r = n%7;
   n/=7;
  total =(n*(49+(7*n)))/2 + r*(2*(n+1)+r-1)/2;
```

```
cout<<total;
   }
};
int main(){
   int n;
   cin>>n;
   Bank CalculateMoney;
   CalculateMoney.totalMoney(n);
             return 0;
}
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                    Typing Page for Pra...
                     Course
                                  OOPS
                                               Session
                                                                Classes, Methods & Constructors
                                                                                                   Question Information
                                                                                                                                  • Level 1 • Challenge 13
                                   Problem Description:
                                   Tamilnadu Educational Minister has ordered the Director of Higher education to make the Libraries in Government schools advanced.
                                   So they are planning to create a software which keeps track of the books availability and respond to students request for books.
                                   Can you help the government to do this?
                                   Functional Description:
                                    Input values need to be passed to the Parameterized constructor and to output need to be printed by accessing it.
                     Problem
                                   1≤ roll ≤100
                                   100 ≤ bcode ≤ 999
                                   First and Second Line of Input has 3 values of type integer, String and Integer separated by a space representing Roll Number, Name and Book code
                                   Output Format:
                                    Print the Details of Student and Book in the expected format.
                                    Refer sample testcases for format specification.
 Type here to search
                                                                                                                    🧅 32°C Haze \land 📤 🗈 🦟 🕬 ENG ೧ಽ
#include <iostream>
using namespace std;
class student
{
   string name;
   int roll;
   float height, weight;
   public:
   student(){name="Bhagavan";roll=1593;height=172.5;weight=60.4;}
```

```
void set_data()
    {
       cin>>name>>roll>>height>>weight;
    }
    void displaydata()
    {
       cout<<name<<" "<<roll<<" "<<height<<" "<<weight<<endl;
    }
};
int main()
{
    student s1,s2;
    s1.set_data();
    s1.displaydata();
    s2.displaydata();
              return 0;
}
                                                                    💌 YouTube 🗝 c++ questions| Gee... 🚺 cpp practice question 📝 C++ Compiler 🕍 stack o
                                    Hassan Works for the Popular Telecommunication Company.
                                     Recently TRAI has ordered all the internet service providers to modify the STD codes from 0 to 91 for all the customers in India
                                     So Hasan has been assigned the task of collecting the phone numbers of their customers across the country from the customer Database of his company.
                                     After Collecting the phone numbers he has to do the following:
                                     Replace 0 with +91 as 1st digit of STD code.
                                    The exchange code need to be retained as it is.
                                    And the 3rd part need to be displayed as it is.
                                     Since the number of customers in the Database is huge hasan is finding it difficult to complete his task
                                    Can you help him with the programming logic to do so?
                                    Constraints:
                                    000≤stdcode≤099
                                    450≤exchangecode≤800
                                     50000≤num≤90000
```

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```
#include <iostream>
using namespace std;
class Phone
{
  public:
  char n[14];
  void change()
  {
    cin>>n;
    n[0]='1';
    cout<<'9'<<n;
 }
};
int main()
{
  Phone obj;
  obj.change();
       return 0;
}
```