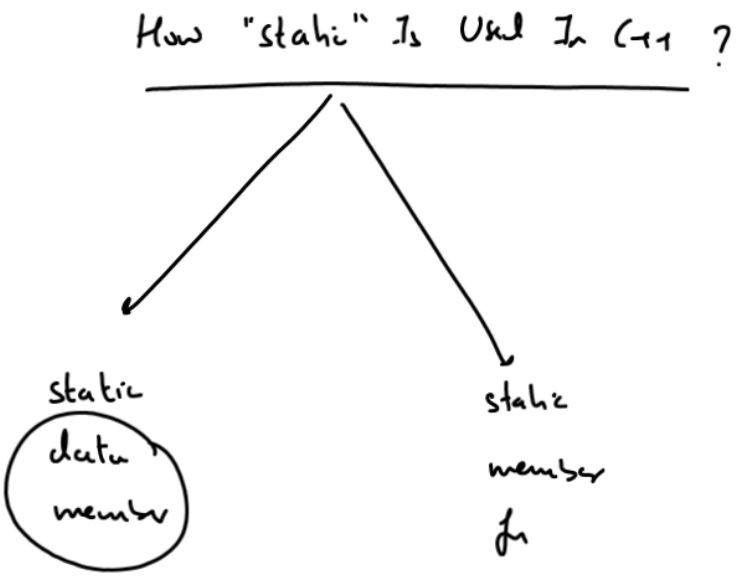
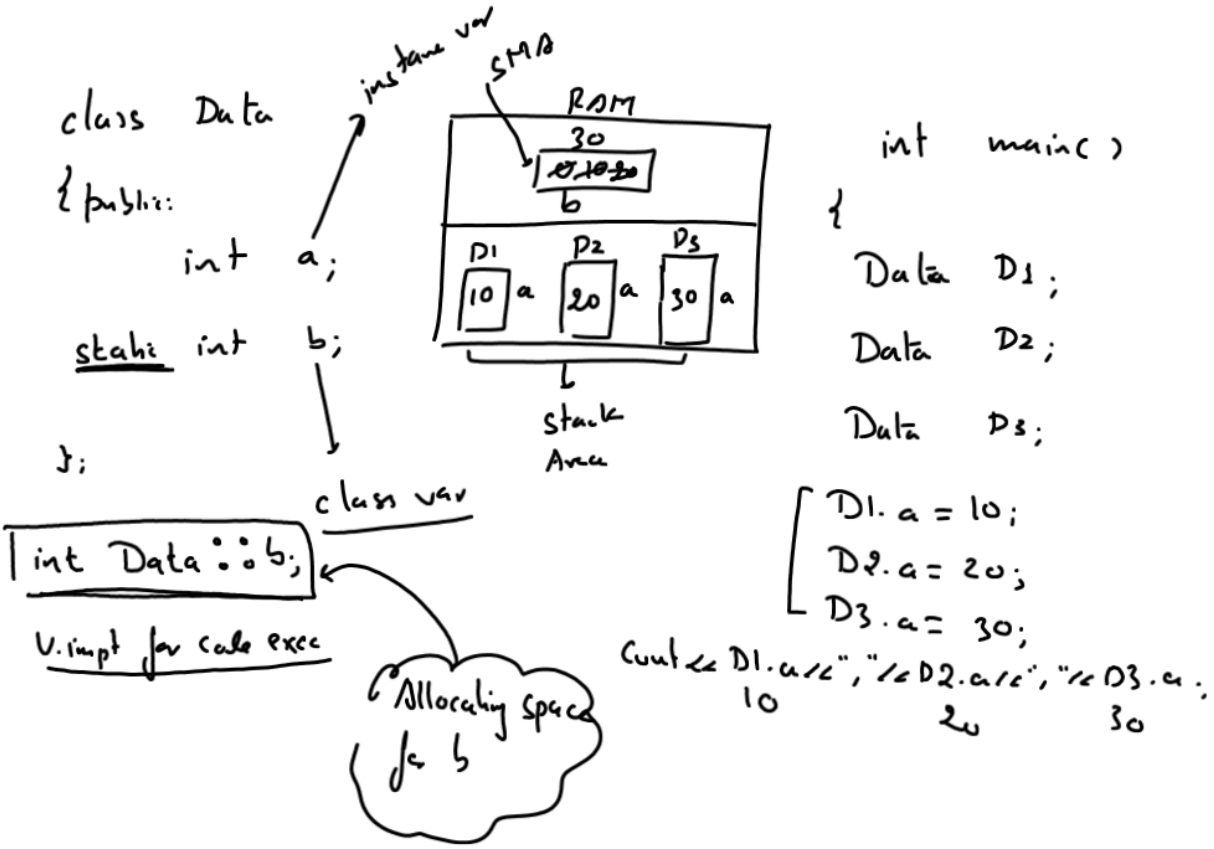
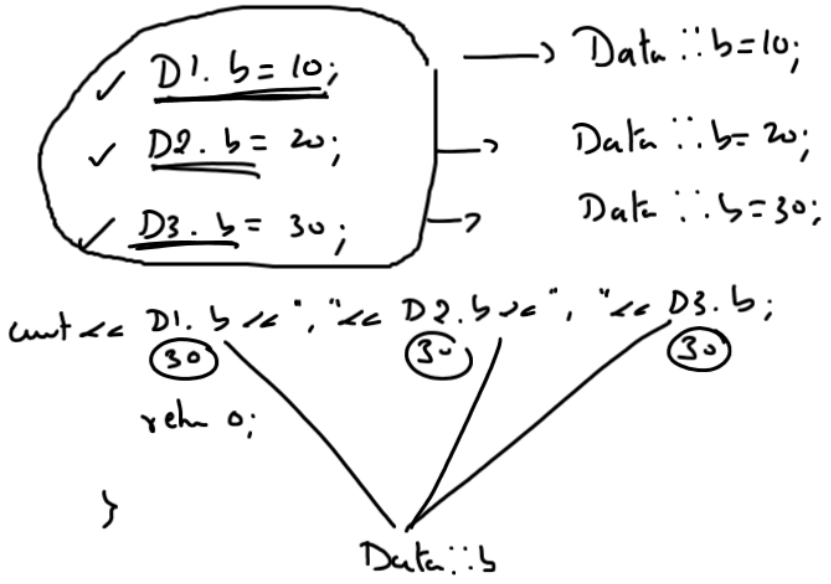



```
class  Data
{
      int   a;
      int   b;
};
```

instance var


class Data
{ public:
int a;
static int b;
};
instance var
SMB
RAM
30
b
D1
10 a
D2
20 a
D3
30 a
stack Area
int main()
{
Data D1;
Data D2;
Data D3;
D1.a = 10;
D2.a = 20;
D3.a = 30;
cout << D1.a << ", " << D2.a << ", " << D3.a;
10 20 30
class var
int Data::b;
V. impt for code exec
Allocating space for b

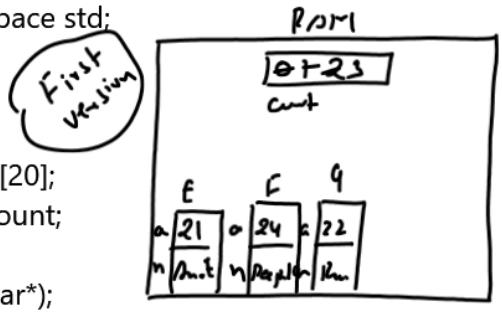

D1.b = 10;
D2.b = 20;
D3.b = 30;
Data::b=10;
Data::b=20;
Data::b=30;
cout << D1.b << ", " << D2.b << ", " << D3.b;
30 30 30
return 0;
}
Data::b

WAP to create a class called Emp having the following data members:

1. age: For storing age of the employee
2. name: For storing the name of the employee
3. count: For storing number of employees working in the company

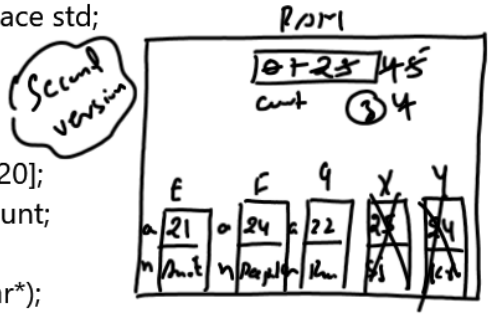
Also provide following member functions in the class:
1. A parametrized constructor for initializing age and name.
2. A member function called show() for displaying age and name.
3. A member function called showcount() for displaying total emp working in the company

```
#include <iostream>
#include <string.h>
using namespace std;
class Emp
{
   int age;
   char name[20];
   static int count;
public:
   Emp(int,char*);
   void show();
   void showcount();
};
int Emp::count;
Emp::Emp(int a,char *p)
{
   age=a;
   strcpy(name,p);
   ++count;
}
```




```
void Emp::show()
{
   cout<<"age="<<age<<",name="
    <<name<<endl;
}
void Emp::showcount()
{
   cout<<"Total emp working are "<<count;
}
int main()
{
   Emp E(21,"Amit");
   Emp F(24,"Deepak");
   Emp G(22,"Ravi");
   E.show();
   F.show();
   G.show();
   E.showcount();
   F.showcount();
   G.showcount();
   return 0;
}
```

```
#include <iostream>
#include <string.h>
using namespace std;
class Emp
{
    int age;
    char name[20];
    static int count;
public:
    Emp(int,char*);
    void show();
    void showcount();
   ~Emp();
};
int Emp::count;
Emp::Emp(int a,char *p)
{
    age=a;
    strcpy(name,p);
    ++count;
}
```




```
Emp::~Emp()
{
   --count;
}
```

```
void Emp::show()
{
    cout<<"age="<<age<<",name="
     <<name<<endl;
}
void Emp::showcount()
{
    cout<<"Total emp working are "<<count;
}
int main()
{
    Emp E(21,"Amit");
    Emp F(24,"Deepak");
    Emp G(22,"Ravi");
    E.show();
    F.show();
    G.show();
     E.showcount();
    {
     Emp X(25,"Sooraj");
     Emp Y(24,"Kiran");
      X.show();
      Y.show();
      E.showcount();
    }
  E.showcount();
```