

A. What will be the O/P of the following code segments? Identify the bugs if any and re-run *it with corrected code*.

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1. #include <iostream>
using namespace std;
class B;
class A
{
private:
    int a;
public:
    A() { a=0; }
    void showa() { cout<< "\n a in A is " << a; }
    void show(A& x, B& y);
};
class B
{
private:
    int b;
public:
    B() { b=6; }
    void showb() { cout<< "\n b in B is " << b; }
    void A::show(A& x, B& y);
};

void A::show(A& x, B& y)
{
    cout << "A::a=" << x.a << endl;
    cout << "B::b=" << y.b << endl;
}

int main()
{
    A a;  B b;
    a.showa();
    b.showb();
    cout<<endl;
    a.show(a,b);
    return 0;
}
```

```

2. #include <iostream>
using namespace std;
class mytime
{
    int hrs;
    int mins;
public:
    mytime(){}
    mytime(int t = 78)
    {
        hrs = t/60;
        mins = t%60;
    }
    void disp()
    {
        cout<<"\n\tIt's "<<hrs<<":"<<mins<<" now";
    }
};
int main()
{
    mytime t;
    int drn = 85;
    t = drn;
    t.disp();
}

```

B. Write a program for ticket reservation. Define a class ticket having the private ticket-no, number of seats, rate, total price. Define public member functions to initialize the data members during object creation; to display the values of the data members; to compute the total price. The ticket no. of a ticket object should be automatically generated by the system. Define another class admin who has to generate the ticket for a given ticket object.