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W7_Programming-Qs3

Due on 2020-11-05, 23:59 IST

Consider the following program. Fill in the blank at `LINE-1`, `LINE-2`, and `LINE-3` with appropriate inheritance type such that it satisfies the given test cases.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	1 5	0 16 32 16	0 16 32 16	Passed

The due date for submitting this assignment has passed.
1 out of 1 tests passed.
You scored 100.0/100.

Assignment submitted on 2020-11-05, 23:28 IST
Your last recorded submission was :

```
#include <iostream>
using namespace std;

class A {
public:
    A(int i = 0) { cout << i << " "; }
    void print(int i){ cout << i << " "; }
};
class B : virtual public A{ // LINE-1 : Inherit from class A
public:
    B(int i = 0) : A(++i) { print(i); }
};

class C : virtual public A { // LINE-2 : Inherit from class A
public:
    C(int i = 0) : A(++i) { print(i); }
};

class D : public C,public B{ // LINE-3 : Inherit from class B and C
public:
    D(int i = 0) : B(i * 2), C(++i) { print(i); }
};
```

```
23 int main() {
24     int i;
25     cin >> i;
26
27     D obj(i);
28
29     return 0;
30 }
```