Name Gunay Rustamova

What are the **exact outputs** of the following program?

#include <iostream></iostream>	Output:
using namespace std;	
class Test	4
{ 	
<pre>public: Test() {</pre>	
x = y = 0;	7
cout << ++count << endl;	
}	
Test(int i) {	8
x = y = i;	
cout << (count += 2) << endl;	
} Tost(int v int v) [14
Test(int x, int y) { this->x = x;	
this->y = y;	
cout << (count += 3) << end1;	8
}	
<pre>void Print() {</pre>	
<pre>cout << x + y << endl << count << endl;</pre>	15
}	
<pre>static int count; private:</pre>	
int x, y;	8
};	
<pre>int Test::count = 2;</pre>	0
<pre>void main()</pre>	
Tost A(7) P(F 10) C:	9
Test A(7), B(5, 10), C; A.Print();	
B.Print();	
B.count = 9;	10
C.Print();	
Test D;	
}	

Instructor: Mohammad AL-Qudah

Quiz#: 5 Date:

Name Gunay Rustamova

What are the <u>exact outputs</u> of the following program?

<pre>#include<iostream></iostream></pre>	Outputs:
using namespace std;	
class Point	
{	
int x, y;	
public:	С
<pre>int *p;</pre>	-
Point() { cout << "A" << endl; x = y = 0; p = new int; }	
	В
Point(const Point &o) { cout <<	
<pre>"B" << endl;x = 0.x+1;</pre>	
y = 0.y-1;	
<pre>p = new int;</pre>	5
p = ++((o.p));	
*(o.p) = *p + 2;	
}	4
Point(int k){	
cout << "C" << endl;x = k;	
y = k + 2;	D
<pre>p = new int;</pre>	
*p = x + y;	
}	
	7
~Point(){ cout << "D" << endl; delete p; }	
<pre>void print(){</pre>	
cout << *p << endl; cout <<	4
x + y << endl;	
}	
<pre>};</pre>	7
,,	,
<pre>void f1(Point &obj) { obj.print(); }</pre>	
<pre>void f2(Point *obj) { (*obj).print(); }</pre>	
<pre>void f3(Point obj) { obj.print(); }</pre>	4
<pre>void main()</pre>	
{	
Point p1(1);	_
f3(p1);	D
f1(p1);	
f2(&p1);	
}	

Object Oriented Programming (OOP)

Instructor: Mohammad AL-Qudah Ouiz # 6

Name Gunay Rustamova

What are the **Exact Outputs** of the following program?

```
#include<iostream> using
namespace std;
class Point {
        static int x;int y;
public:
        Point() { x = y = 10; print(); }Point(int i) { x
        void print() { cout << "(" << x << "," << y << ")" << endl; }void moveRight(void) {
        x++; y++; }
        void moveLeft(void) { --x; --y; }
};
int Point::x = -1;
class Line {
        Point
                       b;
                 a,
public:
        Line(): b(3) \{ ; \}
        void resize(void){ a.moveLeft(); b.moveRight(); } void shift(void) {
        a.moveLeft(); b.moveLeft(); } void draw() { a.print(); b.print();
};
void main() {
        Line obj;
        obj.resize();
        obj.draw();
        obj.shift();
        obj.draw();
}
Output:
    (10,10)
    (3,9)
     (3,4)
     (1,8)
     (1,3)
```

Object Oriented Programming

(OOP)Instructor: Mohammad AL-Qudah

Quiz#: 7
Date

Name: Gunay Rustamova

What are the <u>exact outputs</u> of the following program?

```
#include<iostream>
                                                                            Output:
using namespace std;
class A {
private:
     int x;
                                                                              CA
public:
                                                                              A: x = 11
     A(int i) { x = i + 1; cout << "CA" << endl; print(); }
                                                                              CA
     ~A() { cout << "DA" << endl; print();}
                                                                              A: x = 8
     void print(void){ cout << "A: x = " << x << endl; }</pre>
                                                                              CB
                                                                              A: x = 8
      void setX(int i) { x = i + 2; }
                                                                              DB
};
                                                                              DA
                                                                              A: x = 8
class B : public A {
                                                                              DA
private:
                                                                              A: x = 11
     int x;
     A a;
public:
     void setX(int i) { x = i + 5; }
     B(int i) : a(i+2), A(i * 2) {
           x = i;
           cout << "CB" << endl;</pre>
           a.print();
     B() : A(1), a(2) {
           x = 0;
           cout << "CB" << endl;</pre>
           a.print();
      }
      ~B() { cout << "DB" << endl; }
     void print(void) {    cout << "B: x = " << x << endl; }</pre>
};
void main(void)
     B o1(5);
}
```

Object Oriented Programming (OOP)Instructor: Mohammad AL-Qudah

Quiz#: 8
Date:

Name Gunay Rustamova

What are the **exact outputs** of the following program?

<pre>#include<iostream></iostream></pre>	Output:
using namespace std;	
class A{	CA
protected:	CA
int x;	
<pre>public: A(int i) { x = i; cout<<"CA"<<endl; pre="" }<=""></endl;></pre>	СВ
<pre>virtual ~A() { cout<<"DA"<<endl; pre="" }<=""></endl;></pre>	
<pre>virtual void print(void)</pre>	A: x = 4
{	
cout << "A: x = " << x << endl; }	A: x = 7
} ;	DA
<pre>class B: public A{ private:</pre>	B: x = 5
int x;	
<pre>public:</pre>	DB
B(int i): A(i+2) { x = i;	DA
cout<<"CB"< <endl;< td=""><td></td></endl;<>	
}	DA
~B() { cout<<"DB"< <endl; td="" }<=""><td></td></endl;>	
<pre>void print(void) {</pre>	
cout << "B: x = " << x << endl;	
}	
};	
<pre>void fun1(A p) { p.print(); }</pre>	
<pre>void fun2(A &p) { p.print(); }</pre>	
void main(void)	
<pre>void main(void) {</pre>	
A obj1(4);	
B obj2(5); fun2(obj1):	
<pre>fun2(obj1); fun1(obj2);</pre>	
fun2(obj2);	-
}	

Object Oriented Programming (OOP)

Instructor: Mohammad AL-Qudah

Quiz#: 9
Date:

Name Gur

Gunay Rustamova

What are the exact outputs of the following program?

<pre>#include <iostream></iostream></pre>	Output:
using namespace std;	
	CA
<pre>class A { protected:</pre>	
int x;	_
public:	4
P44-1-4	5
A(int i=1) { x = i; cout << "CA \n"; m1(); }	
<pre>virtual ~A(){ cout << "DA \n"; }</pre>	F
<pre>virtual void m1() { cout << x << endl; }</pre>	5
<pre>virtual void pr1() { m1(); }</pre>	
<pre>void pr2() { m1(); }</pre>	5
<pre>void pr3() { m1(); } };</pre>	
J,	5
<pre>class B : public A {</pre>	
protected:	_
int x;	5
private:	
<pre>int* m_array;</pre>	DB
<pre>public: B(int length): A(length-1)</pre>	
{ x = length; m_array = new int[length]; m1(); }	DA
~B() { cout << "DB \n"; delete[] m_array; }	DA
<pre>virtual void m1() { cout << x << endl; }</pre>	
<pre>void pr1() { m1(); }</pre>	
<pre>virtual void pr2() { m1(); }</pre>	-
<pre>void pr3() { m1(); }</pre>	
} ;	
int main()	
<pre>int main() {</pre>	
B *b = new B(5) ;	
A *a = b;	
a->m1();	
a->pr1();	
a->pr2();	
a->pr3();	
delete a;	
noturn A:	
return 0;	
<u> </u>	