

Find the output for the following programs

```
1.#include<iostream>
using namespace std;
main()
{
    int i=10;
    int &r=i;
    r++;
    int *p=&i;
    p++;
    cout << "i=" << i << "r=" << r << endl;
}
```

i=11, r=11 ✓

```
2.#include<iostream>
using namespace std;
int i=20;
main()
{
    int i=5;
    cout<<i<<::i<<endl;
    {
        int i=10;
        cout<<i<<::i<<endl;
    }
}
```

520n1020 ✓

5,20 and 10,20

```
3.#include<iostream>
using namespace std;
class abc
{
    int x,y;
public:
    void set_data(int a,int b)
    {
        x=a,y=b;
    }
};
main()
{
    set_data(10,20);
}
```

x=10 y=20

• ERROR ✓

though object call

```
4.#include<iostream>
using namespace std;
class ab
{
    int x,y;
public:
    void set_data(int a,int b)
    {
```

```

        x=a,y=b;
    }
};
main()
{
    ab n;
    n.set_data(10,20,30);
}

```

ERROR BECAUSE OF SET DATA



```

5.#include<iostream>
using namespace std;
class def
{
    int x,y;
    public:
    void set_data(int a,int b)
    {
        x=a,y=b;
    }
};
main()
{
    def *n;
    n.set_data(10,20);
}

```

error,instead use n->setdata(), but that will also show segmentation fault.



```

6.#include<iostream>
using namespace std;
class A
{
    int x,y;
    public:
    void set_data(int a,int b)
    {
        x=a,y=b;
    }
};
main()
{
    A n;
    n.a(10,20);
}

```

mismatch in object initialisation.



```

7.#include<iostream>
using namespace std;
class Test
{
    static int count;
    public:
    static void get_data()
    {
        count++;
    }
}

```

```

    }
};
int Test::count=1;
main()
{
    Test t;
    t.get_data();
}

```

2 if we put cout statement in get data

```

8.#include<iostream>
using namespace std;
class sample
{
public:

```

```

    void set_data(char c)

```

```

    {

```

```

        ch=c;

```

```

    }

```

```

    void get_data()

```

```

    {

```

```

        cout<<a<<ch<<endl;

```

```

    }

```

```

private:

```

```

    int a;

```

```

    char ch;

```

```

};

```

```

main()

```

```

{
    sample s;

```

```

    s.set_data('A');

```

```

    s.get_data();

```

```

}

```

garbagevalueA

a=

ch='A'

```

9.#include<iostream>
using namespace std;
class sample
{

```

```

public:

```

```

    void set_data(char c);

```

```

    void get_data();

```

```

private:

```

```

    int a=10;

```

```

    char ch;

```

```

};

```

```

void sample::set_data(char c)

```

```

{

```

```

    ch=c;

```

```

}

```

```
void sample::get_data()
{
    cout<<a<<ch<<endl;
}
```

```
main()
{
    sample s;
    s.set_data('A');
    s.get_data();
}
```

10A

```
10.#include<iostream>
using namespace std;
class Test
{
private:
    static int count;
public:
    static void get_data()
    {
        count++;
    }
};
main()
{
    Test t;
    t.get_data();
}
```

ERROR

```
11.#include<iostream>
using namespace std;
int main()
{
    int x = 5;
    if(x==5)
    {
        if(x==5) break;
        cout<<"Hello";
    }
    cout<<"Hi";
}
```

error

```
12.#include<iostream>
using namespace std;
int main()
{
    class student {
        int rno =10;
    } v;
```

```
    cout<<v.rno;  
}  
10
```

ERROR



```
13.#include <iostream>  
using namespace std;  
namespace first  
{  
    int var = 5;  
}  
namespace second  
{  
    double var = 3.1416;  
}  
int main ()  
{  
    int a;  
    a = first::var + second::var;  
    cout << a;  
}  
8
```



```
14.#include <iostream>  
using namespace std;  
int main()  
{  
    const int i = 20;  
    const int* const ptr = &i;  
    (*ptr)++;  
    int j = 15;  
    ptr = &j;  
    cout << i;  
}  
ERROR i is assigned with read only pointer
```

ERROR i is assigned with read only pointer

```
15.#include <iostream>  
using namespace std;  
int main()  
{  
    int arr[] = { 4, 5, 6, 7 };  
    int* p = (arr + 1);  
    cout << *arr + 10;  
}  
ANSWER: 14;
```

ANSWER: 14;

```
16.#include <iostream>  
using namespace std;  
int main()  
{  
    int a = 10, *pa, &ra;  
    pa = &a;  
    ra = a;
```

```

    cout << "a=" << ra;
    return 0;
}

```

ANSWER: ERROR because reference variable ra is not initialised

```

17.#include<cstdio>
int main()
{
    int a = 35;
    int b = 12;
    printf("%d ", ~a);
    printf("%d ", ~ - b);
}

```

ANWER: -36 11

```

18.#include <iostream>
using namespace std;
int main()
{
    char ch='A';
    void *ptr1=&ch;
    char *ptr2;
    ptr2 = ptr1;
    cout << ptr2 << " " << ptr1 << endl;
}

```

ANSWER: ERROR because void pointer needs to be typecasted

```

19.#include <iostream>
using namespace std;
int main()
{
    int i;
    i = 1 + (1,4,5,6,3);
    cout << i;
}

```

ANSWER: 4

```

20#include<iostream>
using namespace std;
class ab
{
    int x,y;
public:
    void set_data(int x, int y)
    {
        x=x,y=y;
    }
};
main()
{
    ab n;
    n.set_data(10,20);
}

```

Aanswer: 10 20

```
21.#include <iostream>
using namespace std;
int main()
{
    int a = b = c = 0;
    cout << a << " " << b << " " << c;
}
```

ERROR because of the expression b n c are undeclared