```
#include <iostream>
    using std::cout;
    using std::endl;
    class base
 6
    protected:
 7
        int no;
 9
        int no1;
10
    public:
11
        base()
12
13
             cout << "In base constructor\n";</pre>
14
             no = 10;
15
             no1 = 100;
16
17
         }
    } ;
18
19
20
   class derived1 : virtual public base
   protected:
23
        int no;
24
         int no2;
25
26
    public:
27
        derived1()
28
29
             cout << "In derived1 constructor\n";</pre>
             no = 20;
30
             no2 = 200;
31
         }
   };
34
35
    class derived2 : virtual public base
36
    {
37
    protected:
38
         int no;
39
         int no3;
40
41
    public:
42
         derived2()
43
             cout << "In derived2 constructor\n";</pre>
44
45
             no = 30;
             no3 = 300;
46
         }
47
   };
48
   class derived : public derived1, public derived2
50
51
52
    public:
53
         derived()
         {
55
             cout << "In derived constructor\n";</pre>
56
57
58
         void display()
59
             cout << base::no << endl;</pre>
60
             cout << derived1::no << endl;</pre>
61
             cout << derived2::no << endl;</pre>
62
             cout << no1 << endl;</pre>
63
             cout << no2 << endl;</pre>
             cout << no3 << endl;</pre>
65
66
         }
67
   } ;
```

```
68
69
    int main(void)
70
         base bobj;
71
         derived1 dobj1;
derived2 dobj2;
72
73
         derived dobj;
74
75
         cout << sizeof(bobj) << endl;</pre>
76
         cout << sizeof(dobj1) << endl;</pre>
77
         cout << sizeof(dobj2) << endl;</pre>
78
79
         cout << sizeof(dobj) << endl;</pre>
80
         dobj.display();
81
82
         return 0;
83
     }
84
85
```