

1. For the follow programs what is the compile time errors?

A)

```
1 class X
2 {
3     //Class X Members
4 }
5
6 class Y
7 {
8     //Class Y Members
9 }
10
11 class Z extends X, Y
12 {
13     //Class Z Members
14 }
```



B)

```
1 class X
2 {
3     public X(int i)
4     {
5         System.out.println(1);
6     }
7 }
8
9 class Y extends X
10 {
11     public Y()
12     {
13         System.out.println(2);
14     }
15 }
```

C)

```
1 public class A
2 {
3     public A()
4     {
5         System.out.println(1);
6     }
7     super();
8
9     System.out.println(2);
10 }
11 }
```

D)

```
1 class X
2 {
3     private int m = 48;
4 }
5
6 class Y extends X
7 {
8     void methodOfY()
9     {
10         System.out.println(m);
11     }
12 }
```

2. What is the output of the following programs?

A)

```
1 class A
2 {
3     int i = 10;
4 }
5
6 class B extends A
7 {
8     int i = 20;
9 }
10
11 public class MainClass
12 {
13     public static void main(String[] args)
14     {
15         A a = new B();
16
17         System.out.println(a.i);
18     }
19 }
```

B)

```
1 class M
2 {
3     int i;
4
5     public M(int i)
6     {
7         this.i = i--;
8     }
9 }
10
11 class N extends M
12 {
13     public N(int i)
14     {
15         super(++i);
16
17         System.out.println(i);
18     }
19 }
20
21 public class MainClass
22 {
23     public static void main(String[] args)
24     {
25         N n = new N(26);
26     }
27 }
```

C)

```

1  class A
2  {
3      public A()
4      {
5          System.out.println("Class A Constructor");
6      }
7  }
8
9  class B extends A
10 {
11     public B()
12     {
13         System.out.println("Class B Constructor");
14     }
15 }
16
17 class C extends B
18 {
19     public C()
20     {
21         System.out.println("Class C Constructor");
22     }
23 }
24
25 public class MainClass
26 {
27     public static void main(String[] args)
28     {
29         C c = new C();
30     }
31 }

```

D)

```

1  class M
2  {
3      int i = 51;
4
5      public M(int j)
6      {
7          System.out.println(i);
8
9          this.i = j * 10;
10     }
11 }
12
13 class N extends M
14 {
15     public N(int j)
16     {
17         super(j);
18
19         System.out.println(i);
20
21         this.i = j * 20;
22     }
23 }
24
25 public class MainClass
26 {
27     public static void main(String[] args)
28     {
29         N n = new N(26);
30
31         System.out.println(n.i);
32     }
33 }

```

E)

```

1  class A
2  {
3      void A()
4      {
5          System.out.println(1);
6      }
7  }
8
9  class B extends A
10 {
11     void B()
12     {
13         A();
14     }
15 }
16
17 public class MainClass
18 {
19     public static void main(String[] args)
20     {
21         new B().B();
22     }
23 }

```

F)

```

1  class A
2  {
3      int methodOfA(int i)
4      {
5          i /= 10;
6
7          return i;
8      }
9  }
10
11 class B extends A
12 {
13     int methodOfB(int i)
14     {
15         i *= 20;
16
17         return methodOfA(i);
18     }
19 }
20
21 public class MainClass
22 {
23     public static void main(String[] args)
24     {
25         B b = new B();
26
27         System.out.println(b.methodOfB(100));
28     }
29 }

```