

What methods would a class that implements the `java.lang.CharSequence` interface have to implement?

What is wrong with the following interface?

```
public interface SomethingIsWrong {  
    void aMethod(int aValue) {  
        System.out.println("Hi Mom");  
    }  
}
```

Is the following interface valid?

```
public interface Marker {  
}
```

**Can you identify the error in the below code?**

```
1  interface A  
2  {  
3      private int i;  
4  }
```

**What will be the output of the following program?**

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

```
    }  
}
```

**What is the output of the following code ?**

```
1    interface X  
2    {  
3        void methodX();  
4    }  
5  
6    class Y implements X  
7    {  
8        void methodX()  
9        {  
10           System.out.println("Method X");  
11        }  
12    }
```

**What is the output for the code below ?**

```
    interface A  
1    {  
2        int i = 111;  
3    }  
4  
5    class B implements A  
6    {  
7        void methodB()  
8        {  
9            i = 222;  
10       }  
    }
```

**What is the output for the code below ?**

```
class A  
{  
    //Class A  
}  
  
interface B extends A  
{  
    //Interface B extending Class A  
}
```

**What will be the output of the following program?**

```
interface P
{
    String p = "PPPP";
    String methodP();
}

interface Q extends P
{
    String q = "QQQQ";
    String methodQ();
}

class R implements P, Q
{
    public String methodP()
    {
        return q+p;
    }

    public String methodQ()
    {
        return p+q;
    }
}

public class MainClass
{
    public static void main(String[] args)
    {
        R r = new R();

        System.out.println(r.methodP());

        System.out.println(r.methodQ());
    }
}
```

**Is the below program written correctly? If yes, what will be the output?**

```
class A implements B
{
    public int methodB(int i)
    {
        return i += i * i;
    }
}

interface B
{
    int methodB(int i);
}
```

```

12
13 public class MainClass
14 {
15     public static void main(String[] args)
16     {
17         B b = new A();
18
19         System.out.println(b.methodB(2));
20     }
21 }
22

```

**How do you access interface field 'i' in the below code?**

```

1 class P
2 {
3     interface Q
4     {
5         int i = 111;
6     }
7 }

```

**Does below program compile successfully?**

```

1 interface ABC
2 {
3     public void methodOne();
4
5     public void methodTwo();
6 }
7
8 interface PQR extends ABC
9 {
10     public void methodOne();
11
12     public void methodTwo();
13 }

```

**Is the following program written correctly? If yes, what will be the output?**

```

1 interface ABC
2 {
3     void methodOne();
4 }
5
6 interface PQR extends ABC
7 {
8     void methodTwo();
9 }
10
11 abstract class XYZ implements PQR

```

```

12     {
13         public void methodOne()
14         {
15             methodTwo();
16         }
17     }
18
19     class MNO extends XYZ
20     {
21         public void methodTwo()
22         {
23             methodOne();
24         }
25     }
26
27     public class MainClass
28     {
29         public static void main(String[] args)
30         {
31             ABC abc = new MNO();
32
33             abc.methodOne();
34         }
35     }

```

**What will be the output of the following program?**

```

interface X
{
    char c = 'A';

    char methodX();
}

class Y implements X
{
    {
        System.out.println(c);
    }

    public char methodX()
    {
        char c = this.c;

        return ++c;
    }
}

public class MainClass
{
    public static void main(String[] args)
    {
        Y y = new Y();
    }
}

```

```

        System.out.println(y.methodX());

        System.out.println(y.c);

        System.out.println(X.c);
    }
}

```

**Can you identify the error in the below code?**

```

1      interface A
2      {
3          void methodA();
4      }
5
6      class B implements A
7      {
8          public void methodA()
9          {
10             interface C
11             {
12                 int i = 123;
13             }
14         }
15     }

```

**What will be the output of the following program?**

```

1      interface One
2      {
3          String s = "FINAL";
4
5          String methodONE();
6      }
7
8      interface Two
9      {
10         String methodONE();
11     }
12
13     abstract class Three
14     {
15         String s = "NOT FINAL";
16
17         public abstract String methodONE();
18     }
19
20     class Four extends Three implements One, Two
21     {
22         public String methodONE()
23         {
24             String s = super.s + One.s;
25         }
26     }

```

```

24
25         returns;
26     }
27 }
28
29 public class MainClass
30 {
31     public static void main(String[] args)
32     {
33         Four four = new Four();
34
35         System.out.println(four.methodONE());
36
37         One one = four;
38
39         System.out.println(one.s);
40     }
41 }

```

**What will be the output of the below program?**

```

1
2
3     interface X
4     {
5         void method();
6     }
7
8     class Y
9     {
10         public void method()
11         {
12             System.out.println("CLASS Y");
13         }
14     }
15
16     class Z extends Y implements X
17     {
18
19     }
20
21     public class MainClass
22     {
23         public static void main(String[] args)
24         {
25             X x = new Z();
26
27             x.method();
28         }
29     }
30
31
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```

### What will be the output of the following program?

```
1  interface A
2  {
3      String A = "AAA";
4
5      String methodA();
6  }
7  interface B
8  {
9      String B = "BBB";
10
11     String methodB();
12 }
13 class C implements A, B
14 {
15     public String methodA()
16     {
17         return A+B;
18     }
19
20     public String methodB()
21     {
22         return B+A;
23     }
24 }
25 class D extends C implements A, B
26 {
27     String D = "DDD";
28
29     public String methodA()
30     {
31         return D+methodB();
32     }
33 }
34 public class MainClass
35 {
36     public static void main(String[] args)
37     {
38         C c = new C();
39
40         System.out.println(c.methodA());
41
42         System.out.println(c.methodB());
43
44         c = new D();
45
46         System.out.println(c.methodA());
47
48         System.out.println(c.methodB());
49     }
50 }
```



**What will be the output of the program below ?**

```
interface X
{
    void methodX();

    interface Y
    {
        void methodY();
    }
}

class Z implements X, X.Y
{
    {
        methodX();

        System.out.println(1);
    }

    public void methodX()
    {
        methodY();

        System.out.println(2);
    }

    public void methodY()
    {
        System.out.println(3);
    }
}

public class MainClass
{
    public static void main(String[] args)
    {
        Z z = new Z();

        z.methodX();

        z.methodY();

        X x = z;

        x.methodX();
    }
}
```

**Can you identify the error in the below code?**

```
1
2     interface X
3     {
4         void methodX();
5     }
6
7     interface Y extends X
8     {
9         void methodY();
10    }
11
12    class Z implements Y
13    {
14        public void methodY()
15        {
16            System.out.println("Method Y");
17        }
18    }
```

**What will be the output of the following program?**

```
1     abstract class A
2     {
3         abstract void myMethod(Number N);
4     }
5
6     interface B
7     {
8         abstract void myMethod(Object O);
9     }
10
11    class C extends A implements B
12    {
13        void myMethod(Number N)
14        {
15            System.out.println("Number");
16        }
17
18        public void myMethod(Object O)
19        {
20            System.out.println("Object");
21        }
22    }
23
24    public class MainClass
25    {
26        public static void main(String[] args)
27        {
28            A a = new C();
29
30            a.myMethod(new Integer(121));
31
32            B b = new C();
```

```

28
29         b.myMethod(new Integer(121));
30
31         C c = new C();
32
33         c.myMethod(new Integer(121));
34     }
35 }
36
37
38
39
40

```

**Is the below program written correctly? If yes, what will be the output?**

```

1
2
3     interface I
4     {
5         class C
6         {
7             int i;
8
9             public C(int i)
10            {
11                this.i = ++i;
12            }
13
14            int methodC()
15            {
16                return ++i;
17            }
18        }
19    }
20
21    public class MainClass
22    {
23        public static void main(String[] args)
24        {
25            I.C c = new I.C(000);
26
27            System.out.println(c.methodC());
28        }
29    }
30
31
32
33
34
35
36
37
38
39
40

```

**What will be the output of the following program?**

```

1
2
3
4   class A { }
5
6   class B extends A { }
7
8   class C extends B { }
9
10  interface ABC
11  {
12      void method(A a);
13  }
14
15  interface PQR
16  {
17      void method(B b);
18  }
19
20  class M implements ABC, PQR
21  {
22      public void method(A a)
23      {
24          System.out.println(2);
25      }
26
27      public void method(B b)
28      {
29          System.out.println(3);
30      }
31  }
32
33  public class MainClass
34  {
35      public static void main(String[] args)
36      {
37          M m = new M();
38
39          m.method(new A());
40
41          m.method(new B());
42
43          m.method(new C());
44      }
45  }

```

**Can you identify the errors in the below code?**

```

1   interface I
2   {
3       class C implements I
4       {
5           public void methodI(int i)

```

```
5         {
6             System.out.println(i);
7         }
8     }
9     void methodI(int i);
10 }
11
12
```