AutoBoxing & AutoUnboxing

Autoboxing: from primitive to object
Autounboxing: from object to primitive

Null value gives false

```
public class Test
{
    public static void main(String[] args)
    {
        Boolean b = new Boolean(null);
        System.out.println(b);
    }
}
```

Q U E S T I O N

Q. Given the code fragment:

```
class Test
{
        public static void main(String[] args)
        {
                Short s1=200;
                Integer s2=400;
                Long s3=(long)s1+s2;//Line-1
                String s4=(String)(s3*s2);//Line-2
                System.out.println("Sum is:"+s4);
        }
}
```

What is the result?

A. Sum is: 600
B. Compilation Fails at Line-1
C. Compilation Fails at Line-2
D. ClassCastException is thrown at Line-1
E. ClassCastException is thrown at Line-2

C

Q. Consider the code:

```
public class Test
{
        public static void main(String[] args)
        {
                Boolean[] b = new Boolean[2];
                b[0]=new Boolean(Boolean.parseBoolean("true"));
                b[1]= new Boolean(null);
                System.out.println(b[0]+".."+b[1]);
        }
}
```

What is the result?

A. true..false
B. true..null
C. Compilation Fails
D. NullPointerException is thrown at runtime

A

Q. Given:

```
public class Test
{
        public static void main(String[] args)
        {
                boolean a = new Boolean(Boolean.valueOf(args[0]));
                boolean b = new Boolean(args[1]);
                System.out.println(a+".."+b);
        }
}
```

And given the commands:
javac Test.java
java Test TRUE null

What is the result?

A. true..null
B. true..false
C. false..false
D. true..true

A

Q. Given the code

```
public class Test
{
        public static void main(String[] args)
        {
                String s1="123";
                String s2="TRUE";
                Integer i1=Integer.parseInt(s1);
                Boolean b1= Boolean.parseBoolean(s2);
                System.out.println(i1+".."+b1);

                int i2= Integer.valueOf(s1);
                boolean b2=Boolean.valueOf(s2);
                System.out.println(i2+".."+b2);
        }
}
```

What is the result?

A.
123..true
123..true

B.
123..true
123..false

C.
123..false
123..true

D. Compilation Fails

A