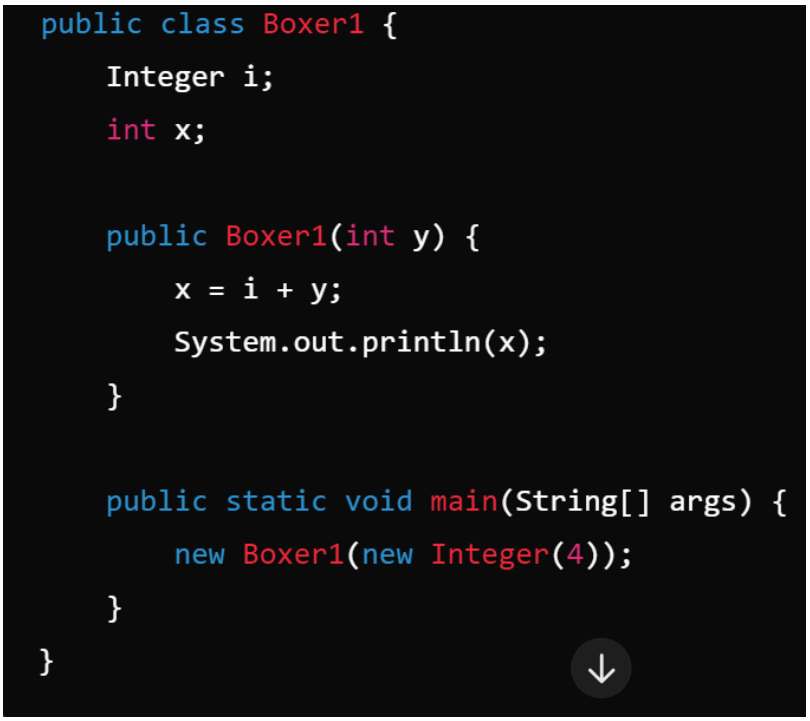
1. What is the result?



```
public class Boxer1 {
    Integer i;
    int x;

    public Boxer1(int y) {
        x = i + y;
        System.out.println(x);
    }

    public static void main(String[] args) {
        new Boxer1(new Integer(4));
    }
}
```

public class Boxer1 {

Integer i = 0; // Inicializar i con 0

int x;

public Boxer1(int y) {

x = i + y;

System.out.println(x);

}

public static void main(String[] args) {

new Boxer1(new Integer(4));

}

}

A. The value “4” is printed at the command line.

B. Compilation fails because of an error in line 5.

C. Compilation fails because of an error in line 9.

D. A NullPointerException occurs at runtime.

E. A NumberFormatException occurs at runtime.

F. An IllegalStateException occurs at runtime.

2. How many times is 2 printed?

```
public static void main(String[] args) {
    String[] table = {"aa", "bb", "cc"};
    int ii = 0;
    for (String ss : table) {
        while (ii < table.length) {
            System.out.println(ii); ii++;
            break;
        }
    }
}
```

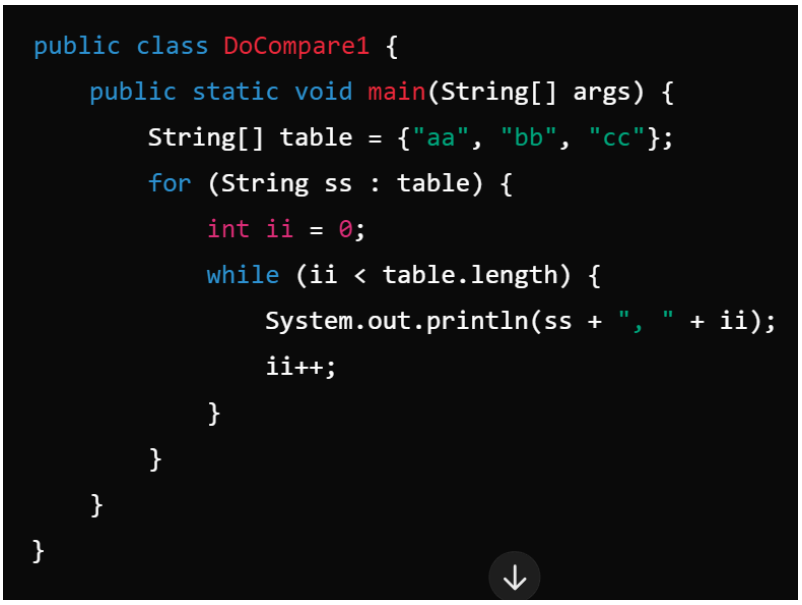
A. Zero.
B. Once.
C. Twice.
D. Thrice.
E. It is not printed because compilation fails.

3. ¿Cuál sería el resultado?

```
public classDoCompare4 {
     public static void main(String[] args) {
          String[] table = {“aa”, “bb”, “cc”};
          int ii = 0;
          do {
               while (ii < table.length) {
                    System.out.println(ii++);
               }
          } while (ii < table.length);
     }
}
```

a) 0
b) 0 1 2 inicia en 0, se incrementa en 1 por lo que ya es 1 que sigue siendo menos que la longitud, se incrementa en 1 la i y ahora 2, por lo que sigue siendo menor a la longitud, por lo que imprime 012
c)
d) 0 1 2 0 1 2 0 1 2
e) Compilation fails

4. ¿Cuál sería el resultado?



```
public class DoCompare1 {
    public static void main(String[] args) {
        String[] table = {"aa", "bb", "cc"};
        for (String ss : table) {
            int ii = 0;
            while (ii < table.length) {
                System.out.println(ss + ", " + ii);
                ii++;
            }
        }
    }
}
```


```
public class DoCompare1 {
    public static void main(String[] args) {
        String[] table = {"aa", "bb", "cc"};
        for (String ss : table) {
            int ii = 0;
            while (ii < table.length) {
                System.out.println(ss + ", " + ii);
                ii++;
            }
        }
    }
}
```


A) Zero.
B) Once.
C) Twice
D) Thrice
E) Compilation fails

33.- What is the result?

A. b 3.

B. b 8.

C. b 13.

D. f 3.

E. f 8.

F. f 13.

G. Compilation fails.

H. An exception is thrown at runtime.

```
class Foo {
        public int a = 3;
        public void addFive() { a += 5; System.out.print("f "); }
}
class Bar extends Foo {
        public int a = 8;
        public void addFive() { this.a += 5; System.out.print("b " ); }
}
Invoked with:
        Foo f = new Bar();
        f.addFive();
        System.out.println(f.a);
```

R: b 3

35.- What is printed out when the program is excuted?

A. - one.

B. - two.

C. - three.

D. - four.

E. - There is no output.

```
public class MainMethod {
        void main() {
                System.out.println("one");
        }
        static void main(String args) {
                System.out.println("two");
        }
        public static final void main(String[] args) {
                System.out.println("three");
        }
        void mina(Object[] args) {
                System.out.println("four");
        }
}
```

R: three

49.- What is the result?

A. 20

B. 100

C. 1000

D. 2

```
public class Calculator {
        int num = 100;
        public void calc(int num) {
                this.num = num * 10;
        }
        public void printNum(){
                System.out.println(num);
        }
        public static void main(String[] args) {
                Calculator obj = new Calculator ();
                obj.calc(2);
                obj.printNum();
        }
}
```

R: 20

50.- What three modifications, made independently, made to class Greet, enable the code to compile and run?

A. Line 8 replaced with handy.dandy.KeyStroke stroke = new KeyStroke();

B. Line 8 replaced with handy.*.KeyStroke = new KeyStroke();

C. Line 8 replaced with handy.dandy.KeyStroke stroke = new handy.dandy.KeyStroke();

D. import handy.*; added before line 1.

E. import handy.dandy.*; added after line 1.

F. import handy.dandy.KeyStroke; added after line 1.

G. import handy.dandy.KeyStroke.typeExclamation(); added after line 1.

```
package handy.dandy;
public class KeyStroke {
        public void typeExclamation() {
                System.out.println("!");
        }
}
```

And:

```
01. package handy;
02.
03.
04. public class Greet {
05.         public static void main(String[] args) {
06.                 String greeting = "Hello";
07.                 System.out.print(greeting);
08.                 KeyStroke stroke = new KeyStroke();
09.                 stroke.typeExclamation();
10.         }
11. }
```

R: import handy.dandy.*; added after line 1

Line 8 replaced with handy.dandy.KeyStroke stroke=new handy.dandy.KeyStroke();

import handy.dandy.KeyStroke; added after line 1.