Consider below code of Counter.java file:

```
public class Counter {
    int count;

    private static void increment(Counter counter) {
        counter.count++;
    }

    public static void main(String [] args) {
        Counter c1 = new Counter();
        Counter c2 = c1;
        Counter c3 = null;
        c2.count = 1000;
        increment(c2);
    }
}
```

On executing Counter class, how many Counter objects are created in the memory?

A. 1
B. 2
C. 3
D. 4

Answer: A

Q>

Consider below code of Test.java file:

```
public class Test {
    public static void main(String[] args) {
        String res = "";
        loop: for(int i = 1; i <= 5; i++) { //Line n1
            switch(i) {
            case 1:
                  res += "UP ";
                  break;
            case 2:
                  res += "TO ";
                  break;
            case 3:
                  break;
            case 4:
                  res += "DATE";
                  break loop;
            }
        }
      System.out.println(res);//UP TO DATE
        System.out.println(String.join("-", res.split(" "))); //Line n2
    }
}
```

What will be the result of compiling and executing Test class?

i = 1
res = UP
i = 2
res = UP TO
i=3
res = UP TO
i=4
res = UP TO DATE

```
System.out.println(String.join("-",["UP","TO","DATE"]))//take the input from an
array and join with delimiter specified
System.out.println("UP-TO-DATE") //UP-TO-DATE
```

Q>
Consider below code of Test.java file:

```
public class Test {
    public static void main(String[] args) {
        String res = ""; //Line n1
        String [] arr = {"Dog", null, "Friendly"};
        for(String s : arr) { //Line n2
            res += String.join("-", s); //Line n3
        }
        System.out.println(res); //Line n4
    }
}
```

What will be the result of compiling and executing Test class?

A. DogFriendly
B. Dog-Friendly
C. DognullFriendly
D. Dog-null-Friendly
E. NullPointerException is thrown
F. CompileTimeError

```
res = ""
arr = {"Dog", null, "Friendly"}
s = Dog
   res = "" + String.join("-","Dog")
          =""  + Dog
       = "Dog"
s = null
  res = "Dog"+ String.join("-",null)
      = "Dognull"

s = Friendly
   res = "Dognull" + String.join("-","Friendly")
         =  "Dognull"+"Friendly"
    res = "DognullFriendly"
```

Output: C

Q>
Given code

```
public static void main(String[] args) {
            String[][] chs = new String[2][];
            chs[0] = new String[2];chs[1] = new String[5];int i=97;
            for (int a=0; a<chs.length;a++ ){
                  for (int b=0;b<chs.length;b++ ){
                        chs[a][b] = " "+i;
                        i++;
                         }
            }
            for (String[] ca:chs ){
                    for (String c: ca ){
                        System.out.print(c + " ");
                  }
                  System.out.println();
```

```
            }
}
A. 97 98
     99 100 null null null
B. 97 98
   99 100 101 102 103
C. Compilation fails.
D. NullPointer exception is thrown at runtime.
E. ArrayIndexOutOfBoundsException is thrown at runtime.

Answer: A

Q>
public static void main(String... args) {
            String ta="A ";
            ta = ta.concat("B ");
            String tb="C ";
            ta = ta.concat(tb);
            ta.replace('C', 'D');
            ta=ta.concat(tb);
            System.out.println(ta);
}
A. A B C D
B. A C D
C. A B C C
D. A B D
E. A B D C
F. CompileTimeError
G. Some Problem at the runtime by JVM.

ta = "A B C C  "
tb = "C "

Answer: C

Q>
Consider below code of Test.java file:
public class Test {
    public static void main(String[] args) {
        StringBuilder sb = new StringBuilder("B"); //Line n1
        sb.append(sb.append("A")); //Line n2
        System.out.println(sb); //Line n3
    }
}
What will be the result of compiling and executing Test class?
A. B
B. BA
C. AB
D. BAB
E. ABA
F. ABAB
G. BABA
H. ABBA
I. CompilationError at line 2

sb = "BA"
  "BA". append("BA");
 sb =  "BABA"
```

Q>

```
public class Test {
    public static void main(String[] args) {
        String [] arr = {"1st", "2nd", "3rd", "4th", "5th"};
        String place = "faraway";
        System.out.println(arr[place.indexOf("a", 3)]); //Line n1
    }
}
```

What will be the result of compiling and executing Test class?

A. 1st
B. 3rd
C. 4th
D. 5th
E. 2nd
F. RunTimeException
G. Compiletime Error at line n-1

```
arr[0] = 1st
arr[1]=  2nd
arr[2] = 3rd
arr[3] = 4th
arr[4] = 5th
place = "faraway"
  System.out.println( arr[3]);
```

Answer: C