

String builder is always non-Synchronized StringBuffer Synchronized

Sb.equals(s). String Builder and buffer is not overridden and calls object class equals method. Ref check since the objects are different its false

Line11- Sb at line 5 is empty. toString will create a empty string. Sb.toString will return String.

EmptyString.equals(s.toString) -> will call equals on String class which is overridden to perform content comparison. Empty String.equals(emptyString) -> returns true

Match 2 is the answer

```
3
       public static void main(String[] args)
4 =
 5
           StringBuilder sb=new StringBuilder(5);
           String s="";
6
7
           if(sb.equals(s))
8 =
           {
               System.out.println("Match 1");
9
10
           else if(sb.toString().equals(s.toString()))
11
12 =
           {
               System.out.println("Match 2");
13
14
           }
15
           else
16
           {
17
               System.out.println("No Match");
18
19
       }
20 }
21
```

ABCC

Line 9 replace is not assigned to ta-> its just create a new object and available for GC

```
➡ OCJA 1.8 Java SE 8 Programmer - I (1Z0 - 808 ) by Durga Sir On 28-04-2018
    ----+----1-----+----2-----+----3-<mark>-</mark>--+----4----+---5----+----6----+----7---
 1 public class Test
 2 □ {
 3
        public static void main(String[] args)
 4 ⊨
             String ta="A";
 5
 6
             ta=ta.concat("B");//AB
 7
             String tb="C";
 8
             ta=ta.concat(tb);//ABC
 9
             ta.replace('C','D');
10
             ta=ta.concat(tb);//ABCC
11
             System.out.println(ta);
12
        }
13 }
◆ DateTimeAPI_Queॐ ◆ Untitled7 ॐ ◆ Test.java ॐ ◆ Untitled9 ॐ ◆ String.txt ॐ
     ► 7:28 / 25:42
```

== always meant for ref comparison so str1 and str2 should point to same object

```
1 public class Test
2 □ {
3
    public static void main(String[] args)
4 ₪
5
       StringBuilder sb1= new StringBuilder("Durga");
6
       String str1=sb1.toString();
7
       //insert code here==>Line-1
8
       System.out.println(str1==str2);
9
    }
10 }
11
```

B- creates a new object

C- when you call a method on sb1 a new object will be created , same as B

D- will create a new object in SCP area. String constant pool

A is the only possible option

```
71 Which code fragment, when inserted at Line-1, enables the code to print true?
72
73 A. String str2=str1;
74 B. String str2=new String(str1);
75 C. String str2=sb1.toString();
76 D. String str2="Durga";
77
78 Answer: A
```

```
    ■ OCJA 1.8 Java SE 8 Programmer - I (1Z0 - 808 ) by Durga Sir On 28-04-2018

                 -+---2---+---5--
80 Q. You are developing a banking module. You have developed a class named ccMask
81 Given the code fragment:
82
83 class CCMask
84 □ {
85
            public static String maskCC(String creditCard)
86 8
87
                    String x="XXXX-XXXX-XXXX-";
88
                    //Line-1
89
90
            public static void main(String[] args)
918
            {
                    System.out.println(maskCC("1234-5678-9101-1121"));
92
            }
93
94 }
```

Return the xxxx and last four digits od the credit card string 15-19 position

```
フコ
 96 You must ensure that maskCC method returns a String that hides all digits of th
97
98 Which two code fragments should you use at line 1, independently to achieve the
99
100 A.
101 StringBuilder sb=new StringBuilder(creditCard);
102 sb.substring(15,19);
103 return x+sb;
104
105 B.
106 return x+creditCard.substring(15,19);
108 C.
109 StringBuilder sb=new StringBuilder(x);
110 sb.append(creditCard,15,19);
111 return sb.toString();
112
113 D.
114 StringBuilder sb=new StringBuilder(creditCard);
115 StringBuilder s=sb.insert(0,x);
116 return s.toString();
117
118 Answer: B,C
119
```

- A- Line102 is not assigned to SB
- B- Is right
- C- Is right
- D- Insert will shift the sb characters to right and will not produce the right result

6 has not been assigned to str

False False

```
-2----+--3---+---4------5----+---6----+---7---+---8-
  1 public class Test
2 = {
    public static void main(String[] args)
3
48
       String str=" ";
5
       str=str.trim();
6
7
       System.out.println(str.equals("")+" "+str.isEmpty());
8
9 }
```

True True

"" and .isEmpty() -> the same

Need to Print Equal, what code should be inserted

If(s1.equalsIgnoreCase(s2)

```
➡ OCJA 1.8 Java SE 8 Programmer - I (1Z0 - 808 ) by Durga Sir On 28-04-2018
                                                                 --6----+---7--
 1 public class Test
 2 □ {
3
       public static void main(String[] args)
4 ⊨
 5
            String s1="Java";
 6
            String s2= new String("java");
7
            //Line-1
8 ⊟
9
                System.out.println("Equal");
10
            }
11
            else
12B
            {
                                  Τ
13
                System.out.println("Not Equal");
14
            }
15
       }
16 }
     14:47 / 25:42
```

A is wrong - S1 in SCP, S2 is new object, S3 =S2 will point to S2, S1==S3 will be False

- B true
- c- is False because case is Java and java
 - E- Both method will return new objects and ref comparison will return False

```
1 class MyString
 2 □ {
 3
      String msg;
 4
      MyString(String msg)
 5 ₪
 6
         this.msg=msg;
 7
      }
 8 }
 9 public class Test
10 □ {
11
      public static void main(String[] args)
12 =
13
         System.out.println("Hello "+ new StringBuilder("Java SE 8"));
         System.out.println("Hello "+ new MyString("Java SE 8"));
14
15
      }
·16 }
● DateTimeAPI_Que器 ◆ Untitled7 器 ◆ Test.java 😄 ◆ Untitled9 器 ◆ String.bd 🙈
```

Line 13-> Hello Java SE 8 -> will call toString method on new StringBuilder Object

Line 14-> Hello MyString@<HashCode> -> this wil call the toString method on Object class which is class name @ hashcode -> To String is not overriden

Hello Java SE 8

Hello MyString@<HashCode>

OutPut -9

Sb.delete(0,Length()),

Delete all contents from 0 to length

Rest of the options are available for collections not StringBuilder

```
    ■ OCJA 1.8 Java SE 8 Programmer - I (1Z0 - 808 ) by Durga Sir On 28-04-2018

 1 public class Test
 2 □ {
 3
      public static void main(String[] args)
 48
 5
         String s="Hello World";
 6
        s.trim();
        int i1=s.indexOf(" ");
7
 8
        System.out.println(i1);
 9
     }
10 }
```

Output:

5

Constructor

First Line compiler will always add super(); if u are not writing

To call super class contructors. If u r not writing super will be place by compiler.

U can write this() to call current class contructor

U can use either super() or this() but not both simultanously, else CE

First line should be super or this, if you add it in second line or upcoming lines CE

The below is valid, line 6 is not constructor call, but variable assignment

This is invalid, super is in second line

```
    ■ OCJA 1.8 Java SE 8 Programmer - I (1Z0 - 808 ) by Durga Sir On 06-05-2018

                   ---2-----6-----7--
   ----+----1----
 1 class Vehicle
 2 □ {
       String type="4w";
3
4
       int maxSpeed=120;
5
       Vehicle(String type,int maxSpeed)
6 □
 7
           this.type=type;
8
           this.maxSpeed=maxSpeed;
9
       }
10 }
```

```
11 class Car extends Vehicle
12 □ {
13
        String trans;
14
       Car(String trans)
15 □
16
                //Line-1
17
            this.trans=trans;
18
19
        Car(String type,it maxSpeed,String trans)
20 □
21
            super(type, maxSpeed);
22
            this(trans);//Line-2
23
        }
24 }
25
```

```
And given the code fragment:

27

28 Car c1= new Car("Auto");
29 Car c2= new Car("4w",150,"Manual");
30 System.out.println(c1.type+".."+c1.maxSpeed+".."+c1.trans);
31 System.out.println(c2.type+".."+c2.maxSpeed+".."+c3.trans);
32

33 What is the result?

4 Untitled1 *** ** Untitled4 *** ** Untitled4 *** ** Untitled5 *** ** Untitled5 *** ** Untitled7java *** ** Unt
```

Very Important

Line 16 – Compile is going to place Super() and in super class , no argument constructor is not available. Hence CE

Line 22. Super and This are used simultaneously. CE

Both Line 1 and Line2 -> CE

CE – Line2

```
➡ OCJA 1.8 Java SE 8 Programmer - I (1Z0 - 808 ) by Durga Sir On 06-05-2018
                 -+---2---+----6----+---7--
  1 class CD
 2 □ {
 3
        int r;
 4
        CD(int r)
 5 ₪
        {
 6
            this.r=r;
 7
 8 }
 9 class DVD extends CD
 10 □ {
 11
        int c;
 12
        DVD(int r, int c)
 13 □
 14
            //line-1
 15
        }
 16 }
17
```

```
18 And Given the code Fragment:
19
10 DVD dvd= new DVD(10,20);
21
22 Which code fragment should be inserted at Line-1 to instantiate dvd object successfully?
23
```

B – CE

A compiler will place super at line 1 and has no no argument const. Super.r = r is a right statement check once

C- right

D- Super used in Second line Wrong

```
72⊟A. super.r=r;
73
      this.c=c;
74
75 B. super(r);
76
      this(c);
77
78 □
      super(r);
79
      this.c=c;
80
81⊕D. this.c=r;
      super(c)
82
83
84 Answer: C
85
```

```
    ■ OCJA 1.8 Java SE 8 Programmer - I (1Z0 - 808 ) by Durga Sir On 06-05-2018

           1 public class Employee
      2 □ {
      3
                                 String name;
                                  boolean contract;
      4
      5
                                  double salary;
      6
                                  Employee()
      7 =
                                  {
      8
                                                   //line-1
      9
   10
                                 public String toString()
   11 =
                                                   return name+":"+contract+":"+salary;
   12
   13
   14
                                 public static void main(String[] args)
   15 =
  16
                                                   Employee e = new Employee();
  17
                                                    //Line-2
  18
                                                   System.out.println(e);
   19
                                  }
   20 }
   21 Which 2 modifications, when made independently, enable to the code to print
122 Durga:true:100.0
         ◆ Untitled1 

→ Untitled4 

→ balance_syllabus.to

→ constructors_ques

→ Employee.java 

→ Untitled6 

→ Untitled7.java 

→ Untitled7.java 

→ Untitled7.java 

→ Untitled8 

→ Untitl
                                                                                                                                                                                                                                                                        col 17 22 00 PC
```

Independently means Line 1 independently should work and Line 2 separately should work . Not both

```
111 □ A. Replace line-2 with
112
       e.name="Durga";
113
       e.contract=true;
114
       e.salary=100;
115
116 B. Replace line-2 with
117
       this.name="Durga";
118
       this.contract=true;
119
       this.salary=100;
121 □ C. Replace line-1 with
       this.name=new String("Durga");
122
       this.contract= new Boolean(true);
123
       this.salary= new Double(100);
124
125
126<sup>□</sup>D. Replace line-1 with
127
       name="Durga";
128
       contract=TRUE;
129
        salary=100.0f;
130
131 ■ E. Replace line-1 with:
       this("Joe", true, 100) I
132
133
134 Answer: A and C
```

- A- After creating an object you can use e.salary e.name after creating an object.
- D- CE. E There is no constructor with 3 args

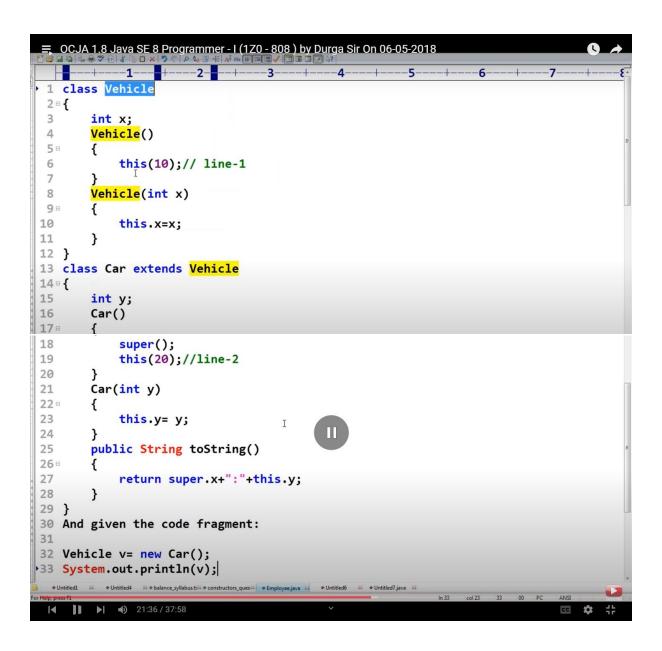
```
1 class A
  2 = {
  3
        public A()
 48
            System.out.println("A");
  5
 6
 7 }
 8 class B extends A
 9 □ {
        public B()
 10
 118
 12
            //line-1
 13
            System.out.println("B");
 14
        }
15 }
 16 class C extends B
 17 □ {
 18
        public C()
 19 =
 20
            //line-2
            System.out.println("C");
21
 22
 23
        public static void main(String[] args)
 24 ⊨
 25
            C c = new C();
 26
        }
 27 }
```

When ever we create child class object parent class object will be executed. First top most parent const will execute. Super() method will be placed in the first line of all constructors

Α

В

C



Line 18 0-> both super and this has been used

Compilation fails at line 2

```
1 public class Person
2 □ {
3
       String name;
4
       int age=25;
       public Person(String name)
6 □
7
           this(); //line-1
8
           setName(name);
9
       }
10
       public Person(String name,int age)
118
12
           Person(name);//Line-2
13
           setAge(age);
14
15
       //setter and getter methods go here
       public String show()
16
17<sub>8</sub>
           return name+" "+age+" "+number;
18
19
20
       public static void main(String[] args)
21 ⊟
           Person p1= new Person("Durga");
22
           Person p2= new Person("Ravi",50);
23
24
           System.out.println(p1.show());
25
           System.out.println(p2.show());
26
       }
27 }
```

Line 7- Class person does not have a no argument constructor

Line 12 – Person(name) – u cant call a constructor with the class name. u should use only

This().

Line 1 and Line2 CE

```
1 class Animal
  2 □ {
  3
        String type="Canine";
  4
        int maxSpeed=60;
        Animal(){}
  6
        Animal(String type,int maxSpeed)
  7 ₪
  8
             this.type=type;
  9
             this.maxSpeed=maxSpeed;
 10
        }
 11 }
 12 class WildAnimal extends Animal
 13 ⊟ {
 14
        String bounds;
 15
        WildAnimal(String bounds)
 16 □
        {
            //line-1
 17
 18
        }
        WildAnimal(String type,int maxSpeed)
19
 20 □
        {
 21
             //line-2
 22
        }
 23 }
 24 And the code fragment:
 26 WildAnimal wolf= new WildAnimal("Long");
 27 WildAnimal tiger= new WildAnimal("Feline",,80,"Short");
 28 System.out.println(wolf.type+" "+wolf.maxSpeed+" "+wolf.bounds);
 29 System.out.println(tiger.type+" "+tiger.maxSpeed+" "+tiger.bounds);
 31 Which 2 modifications enable to the code to print the following output?
 33 Casine 60 Long
 34 Feline 80 Short
Line1-> this.bounds = bounds;
Line 19-> WildAnimal(String type, int maxSpeed, String bounds)
Line 2->
```

super(type, maxSpeed);

this.bounds = bounds;

- A Right
- B. Super ins econd line
- C. Super and This simulataneously
- D. there are no 2 arg const in this wrong
- E- Right

A and E change req

```
296 A. Replace line-1 with
 297
        super();
        this.bounds=bounds; I
298
 299 B. Repalce line-1 with
 300 this.bounds=bounds;
 301 super();
 302 - C. Replace line-2 with
 303 super(type, maxSpeed);
 304 this(bounds);
 305 □ D. Repalce line-1 with
 306
        this("Canine",60);
307
        this.bounds=bounds;
301
•302 □ E. Replace line-2 with
303
        super(type,maxSpeed);
 304
        this.bounds=bounds;
305
```

```
1 class Employee
 2 □ {
 3
       private String name;
 4
       private int age;
 5
       private int salary;
 6
 7
       public Employee(String name,int age)
 8 =
 9
           setName(name);
 10
           setAge(age);
 11
           setSalary(2000);
 12
       }
 13
       public Employee(String name,int age,int salary)
 14 B
 15
           setSalary(salary);
16
           this(name,age);
 17
 18
       //getter and setter methods goes here
 19
       public void printDetails()
 20 □
           System.out.println(name+":"+age+":"+salary);
 21
22
 23 }
 24 Test.java:
25
26 class Test
 27 □ {
 28
       public static void main(String[] args)
 29 =
 30
          [Employee e1= new Employee();
           Employee e2= new Employee("Durga",50);
 31
           Employee e3= new Employee("Ravi",40,5000);
 32
 33
           e1.printDetails();
 34
           e2.printDetails();
 35
           e3.printDetails();
 36
       }
37 }
```

Line 30 – No args const not available. Line 16 This is in second line CE

Ans E – CE in both the class

```
354 A. Compilation fails in the Employee class
355 B. null:0:0
356 Durga:50:0
357 Ravi:40:5000
358 C. null:0:0
359 Durga:50:2000
360 Ravi:40:5000
361 D. Compilation Fails in the Test class
362 E. Compilation Fails in both Test and Employee classes
363
```

```
➡ OCJA 1.8 Java SE 8 Programmer - I (1Z0 - 808 ) by Durga Sir On 06-05-2018
 1 public class CheckingAccount
 2 □ {
 3
        public int amount:
 4
        //line-1
 5 }
 6 And the given the following main method located in another class:
 7
 8 public static void main(String[] args)
 9 □ {
 10
        CheckingAccount acct= new CheckingAccount();
 11
        //line-2
12 }
13 Which 3 pieces of code inserted independently, set the value of amount to 100?
 15 □ A. At line-2 insert:
       amount=100;
16
17
 18 B. At line-2 insert:
       this.amount=100;
 19
 20
 21 C. At line-2 insert:
     acct.amount=100;
22
23
24 D. At line-1 insert:
 25
       public CheckingAccount()
 26 □
27
           amount=100;
28
 30 □ E. At line-1 insert:
       public CheckingAccount()
 32 □
       {
33
           this.amount=100;
34
       }
35
36 F. At line-1 insert:
37
       public CheckingAccount()
38 □
39
           acct.amount=100;
40
```

A is wrong. Can access public instance variable like acct.amount

B is wrong . Cant access This.amount

C. is right

D. is right you can access as amount or this.amount in the const

E. is right

F. is wrong

C,D and Es