Dt : 19/8/2023

Diagram:

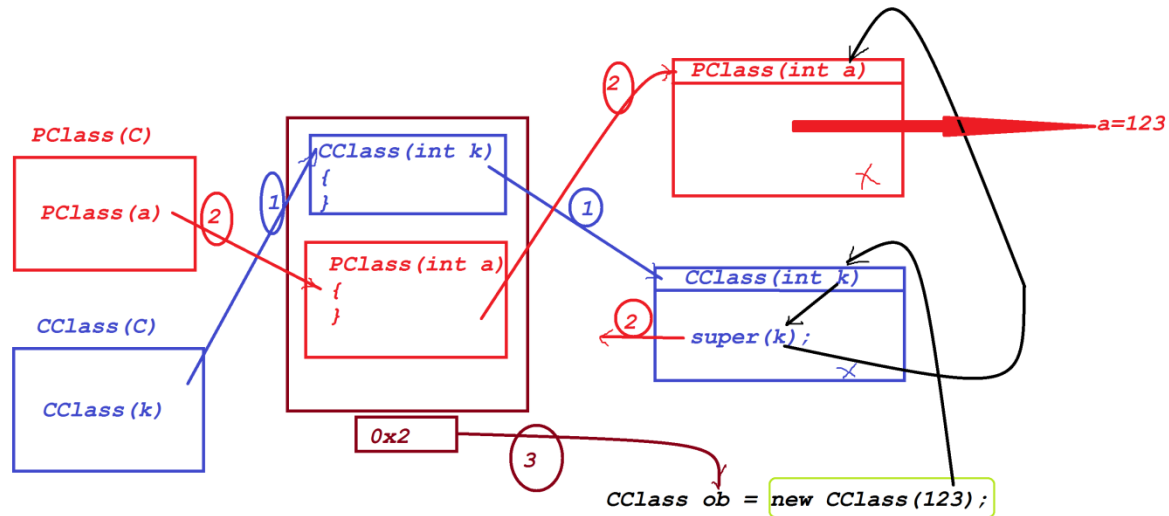==
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faq:

define Constructor Overriding process?

 =>There is no concept of Constructor Overriding process in Java,because

PClass constructor will have PClass_name and CClass Constructor will have

CClass_name.

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Case-3 : Blocks in PClass/SuperClass

 (i)when we access Static-variable from the PClass directly,then Static

block from PClass is executed but CClass Static block is not executed.

(ii)when we access Static-variable from the CClass directly,then static blocks from PClass and CClass are executed.

ProjectName : Inheritance_App6

packages,

p1 : PClass.java

```java
package p1;
public class PClass
{
    public static int a;

    static
    {
    System.out.println("====PClass Static block====");
    System.out.println("The value a:"+a);
    }
}
```

p1 : CClass.java

```java
package p1;
public class CClass extends PClass
{
    static
    {
        System.out.println("====CClass Static block====");
        System.out.println("The value a:"+a);
    }
```

```
    }

  p2 : DemoInheritance6.java(MainClass)

package p2;

import java.util.*;

import p1.*;

public class DemoInheritance6 {

        public static void main(String[] args) {

    Scanner s = new Scanner(System.in);

    System.out.println("Enter the value of a:");

    CClass.a = s.nextInt();

    System.out.println("=====main()=====");

    System.out.println("The value a:"+CClass.a);

    s.close();

        }

}

o/p:

Enter the value of a:

123

====PClass Static block====

The value a:0

=====main()=====
```

The value a:123

ProjectName : Inheritance_App7

packages,

p1 : PClass.java

```java
package p1;
public class PClass
{
    public static int a;

    static
    {
    System.out.println("====PClass Static block====");
    System.out.println("The value a:"+a);
    }
}
```

p1 : CClass.java

```java
package p1;
public class CClass extends PClass
{
   public static int b;
   static
   {
        System.out.println("====CClass Static
block====");
        System.out.println("The value a:"+a);
        System.out.println("The value b:"+b);

    }
}
```

p2 : DemoInheritance5.java(MainClass)

```java
package p2;

import java.util.*;

import p1.*;

public class DemoInheritance7 {

        public static void main(String[] args) {

    Scanner s = new Scanner(System.in);

    System.out.println("Enter the value of b:");

    CClass.b= s.nextInt();

    System.out.println("=====main()=====");

    System.out.println("The value a:"+CClass.a);

    System.out.println("The value b:"+CClass.b);


    s.close();

        }

}
```

o/p:

Enter the value of b:

122

====PClass Static block====

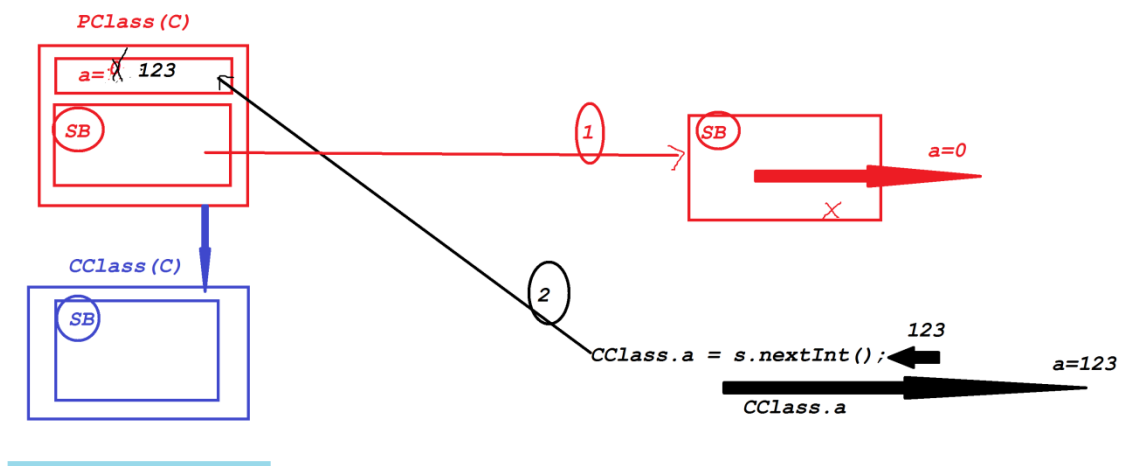The value a:0

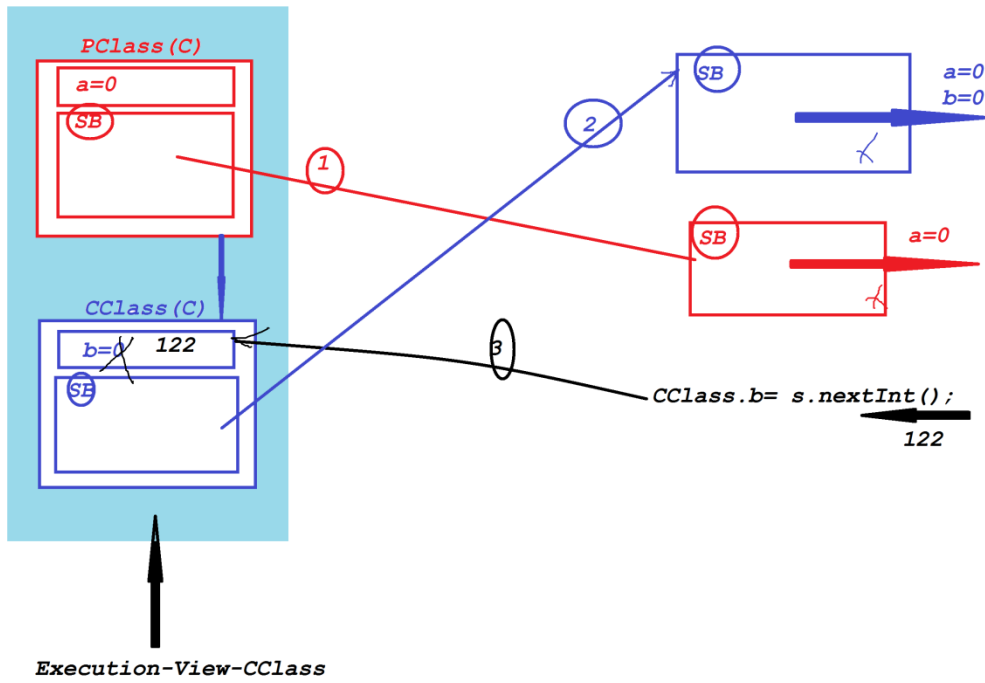====CClass Static block====

The value a:0

The value b:0

=====main()=====

The value a:0

The value b:122

Diagrams:

PClass(C)

a= 123

SB

1

SB

a=0

CClass(C)

SB

2

123

CClass.a = s.nextInt();

a=123

CClass.a

PClass(C)

a=0

SB

CClass(C)

b=0   122

SB

① ② ③

SB

a=0
b=0

SB

a=0

CClass.b= s.nextInt();

122

Execution-View-CClass

===