

Write the CSEStudent class so that the following code generates the output below:

```
public class Student{
    private String name = "";
    public Student(String name){
        this.name = name;
    }
    public final String getName(){
        return name;
    }
}

public class TestStudent{
    public static void printName(Student s){
        System.out.println("Name of Student: " + s.getName());
    }
    public static void main(String [] args)
    {
        System.out.println("Number of CSE Students: " +
CSEStudent.numberOfStudents);
        printName(new CSEStudent());
        printName(new CSEStudent("Barack Obama"));
        printName(new CSEStudent("John McCain"));
        System.out.println("Number of CSE Students: " +
CSEStudent.numberOfStudents);
    }
}
```

### Output

Number of CSE Students: 0  
Name of Student: Default Name  
Name of Student: Barack Obama  
Name of Student: John McCain  
Number of CSE Students: 3

Trace the following code:

<code>public class Student{</code>
<code>    private String name = "";</code>
<code>    public Student(String name){</code>
<code>        this.name = name;</code>
<code>    }</code>
<code>    public Student(){</code>
<code>    }</code>
<code>    public static Student cloneStudent(Student st){</code>
<code>        Student s = new Student();</code>
<code>        s.name = st.name;</code>
<code>        return s;</code>
<code>    }</code>
<code>    public void setName(String name){</code>
<code>        this.name = name;</code>
<code>    }</code>
<code>    public String getName(){</code>
<code>        return this.name;</code>
<code>    }</code>
<code>}</code>

<code>public class Test01{</code>
<code>    public static void main(String [] args){</code>
<code>        Student s1 = new Student ("Bob");</code>
<code>        Student s2 = new Student ("John");</code>
<code>        Student s3 = s1;</code>
<code>        Student s4 = s1.cloneStudent(s2);</code>
<code>        Student s5 = s2.cloneStudent(s1);</code>
<code>        s1.setName("Paul");</code>
<code>        s2.setName("Rob");</code>
<code>        System.out.println(s1.getName());</code>
<code>        System.out.println(s2.getName());</code>
<code>        System.out.println(s3.getName());</code>
<code>        System.out.println(s4.getName());</code>
<code>        System.out.println(s5.getName());</code>
<code>    }</code>
<code>}</code>