Name \_\_\_\_\_\_Period \_\_\_\_

Skill 19.01 Exercise 1			
Refer to the class below.			
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public class Student{			
private String name;			
private int gradeLevel	,		
private double GPA;			
private boolean hasScholarship;			
<pre>public Student(){</pre>			
}			
<pre>public void setName(String n){</pre>			
name = n;			
}			
<pre>public String getName(){</pre>			
return name;			
}			
}			
Complete the stack and heap diagram for the following calls, then indicate the output that would be printed.			
Student student1 = new Student();			
	String someName = "Bob";		
<pre>Student1.setName = someName;</pre>			
<pre>Student student2 = new Student();</pre>			
Student2.setName = "Marvin";			
Student1 = student2;			
<pre>System.out.println(student1.getName());</pre>			
System.out.println(student2	1		
Stack	Неар	Output	

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------------	--

```
Skill 19.2 Exercise 1
The following method was added to the Student class above,
```

```
public int getGradYear(){
    int gradYear = 0;
    int year = YearMonth.now().getYear();
    int month = YearMonth.now().getMonthValue();
        if(month>=6){
            gradYear = 12 - gradeLevel + year + 1;
        }else{
                gradYear = 12 - gradeLevel + year;
        }
        return gradYear;
}
```

Student usernames are based on the students first initial followed by their graduation year. For example, a student name "Bart" is in grade 10. So, his username is b2023. Write the getUsername method below which returns the username of a student.

## Skill 19.3 Exercise 1

Refer to the Student class above. Write the method getHasScholarship, which returns true if a student has a GPA over 3.5 and false otherwise.

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```
Skill 19.4 Exercise 1
Consider the following class declarations
public class SumNums{
     private int num1;
     private int num2;
     public SumNums(int a, int b) {
         int sum = a + b;
     public int getSum(){
         return sum;
     }
     public int reverseNum(int num) {
        int reversed = 0;
        while(num != 0) {
            int digit = num % 10;
            reversed = reversed * 10 + digit;
            num /= 10;
        }
     }
     public int anotherMethod(int num) {
       return reversed*Math.pow(reversed, num);
```

The code above has errors. Fix the code so it works as intended. .

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```
Skill 18.1 Exercise 1
Consider the following partial class declaration
public class SomeClass{
     private int myA;
     public int myB;
     public int myC;
     public someClass(){}
     public void someMethod(){}
     private int getMyA(){
          return myA;
The following declaration appears in another class. For each line of code, indicate whether or not it will compile
without error. If it does not compile indicate why.
SomeClass obj = new SomeClass();
obj.myA = 5;
int x = 10;
obj.myB = x;
int x = obj.myA;
int x = obj.myB;
double x = obj.myC;
System.out.println(obj.myA));
System.out.println(obj.someMethod())
System.out.println(obj.getMyA());
```