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Skill 18.01 Exercise 1			
Refer to the class below.			
<pre>public class Student{</pre>			
private String name;			
private int gradeLevel;			
private double GPA;			
private boolean hasSch	olarship;		
<pre>public Student(){</pre>			
_			
}			
<pre>public void setName(String n){</pre>			
name = n;			
}	١,٢		
<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>			
Student student2 = new Stud	ent();		
Student2.setName("Marvin");			
Student1 = student2;			
System.out.println(student1			
System.out.println(student2	1	T -	
Stack	Неар	Output	

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Skill 18.02 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 18.03 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 18.04 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 18.05 Exercise 1		
Consider the following partial class declaration		
public class SomeClass{		
<pre>private int myA; public int myB;</pre>		
public int myC;		
public life myc,		
<pre>public someClass(){}</pre>		
<pre>public void someMethod(){}</pre>		
<pre>private int getMyA(){</pre>		
return myA;		
}		
}		
The following declaration appears in another class. For without error. If it does not compile indicate why.	r each line of code, indicate whether or not it will compile	
SomeClass obj = new SomeClass();		
obj.myA = 5;		
int $x = 10$;		
obj.myB = x;		
<pre>int x = obj.myA;</pre>		
<pre>int x = obj.myB;</pre>		
<pre>double x = obj.myC;</pre>		
System.out.println(obj.myA));		
<pre>System.out.println(obj.someMethod())</pre>		
<pre>System.out.println(obj.getMyA());</pre>		