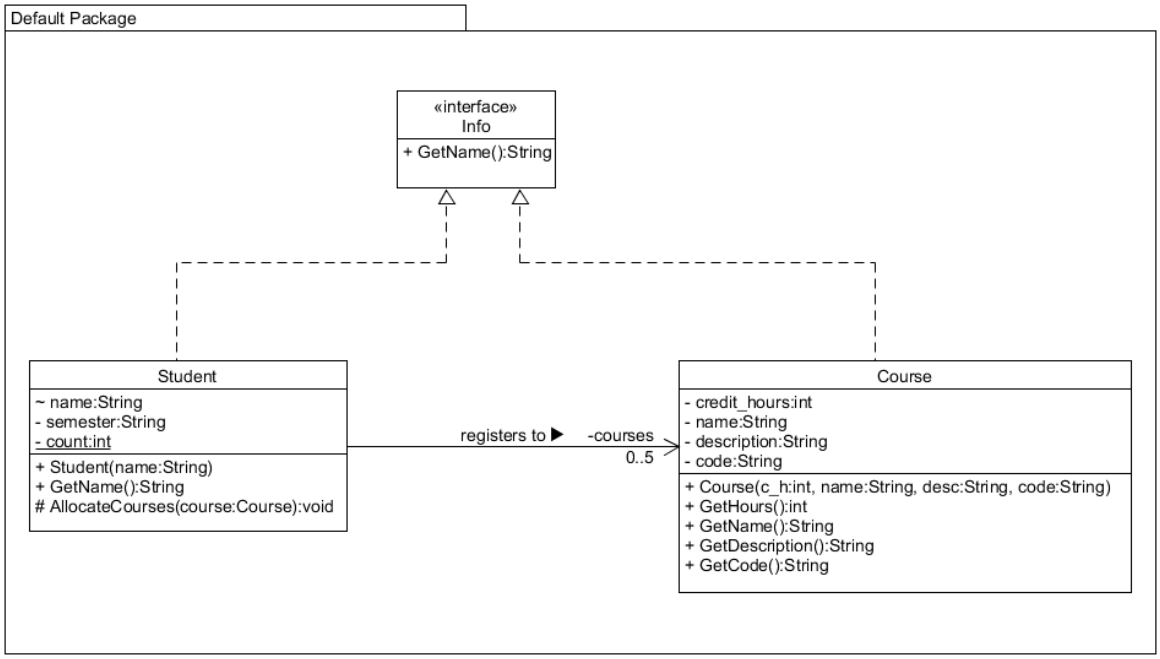
Name: _____

Score: _____ / _____

2nd Hourly - Part 2

Part 1

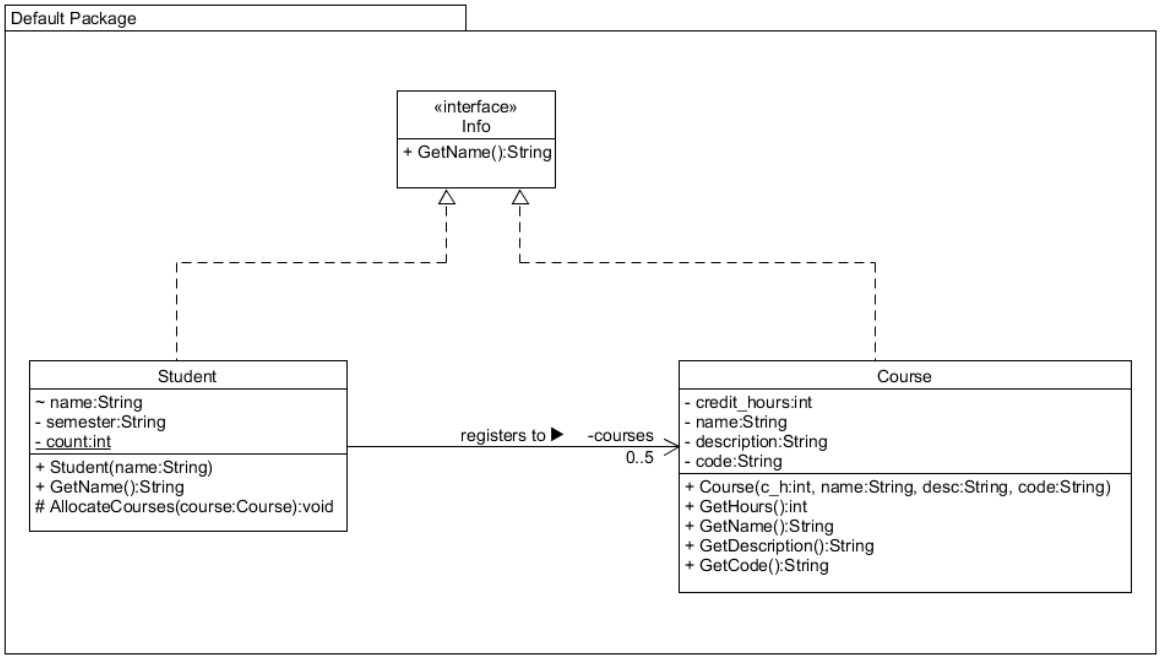


Look at the class diagram above carefully. Then look at the code given below and mark the lines where you find errors. Keep in mind that if you select a wrong option, it will negate a right option that you have selected.

```
1  public class Student extends Info {
2      private String name;
3      private String semester;
4      private int count = 0;
5      private Course[] courses = new Course[5];
6      public void Student(String name) {count++;this.name = name;}
7      public String GetName() {return name;}
8      protected void AllocateCourse(Course course)
9      {
10         for(int i = 0; i < 5; i ++)
11         {
12             if (courses[i] == null)
13             {
14                 courses[i] = course;
15             }
16         }
17     }
18 }
```

- A. 1
- B. 2
- C. 3
- D. 4

- [ ] D. 4
- [ ] E. 5
- [ ] F. 6
- [ ] G. 7
- [ ] H. 8



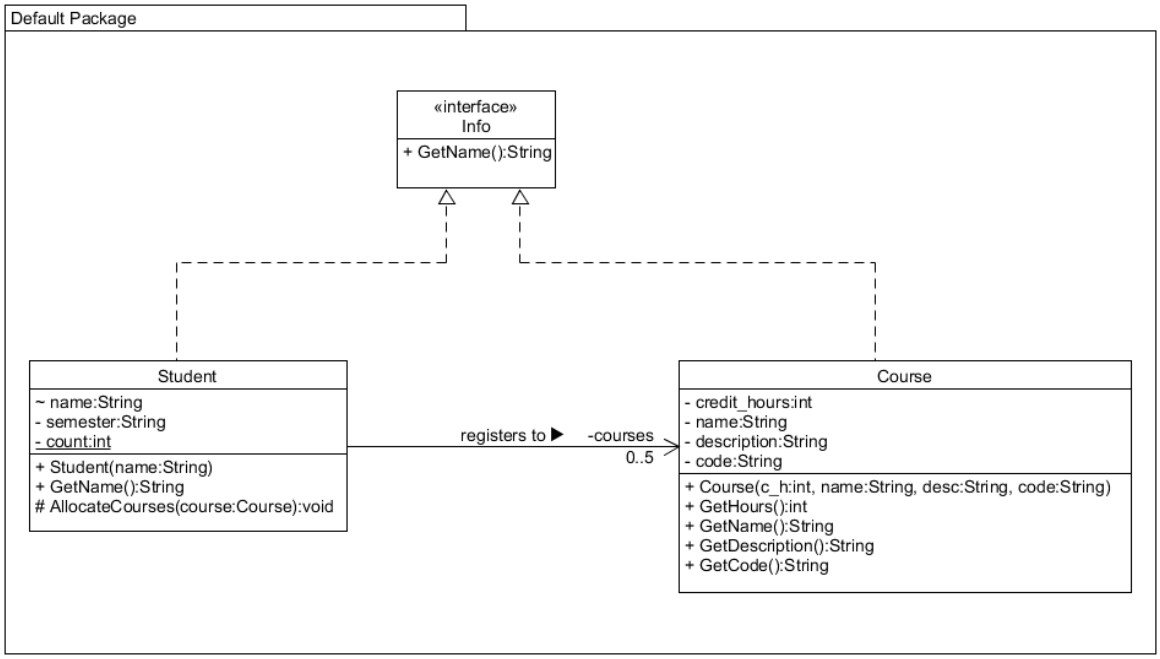
Look at the class diagram above carefully.

The code below is based on the diagram given above. It however has errors. Can you mark the lines that have an error?

As before, a wrong answer will negate a right one

```
1   public class MainProgram {
2       public static void main(String[] args)
3       {
4           Student student = new Student("Ahmad");
5           student.name = "Aamir";
6           Course course = new Course("3", "SE", "Software Engineering", "CSE312" );
7           student.AllocateCourse(course);
8           System.out.println(student.GetName());
9       }
10  }
```

- A. 4
- B. 5
- C. 6
- D. 7
- E. 8

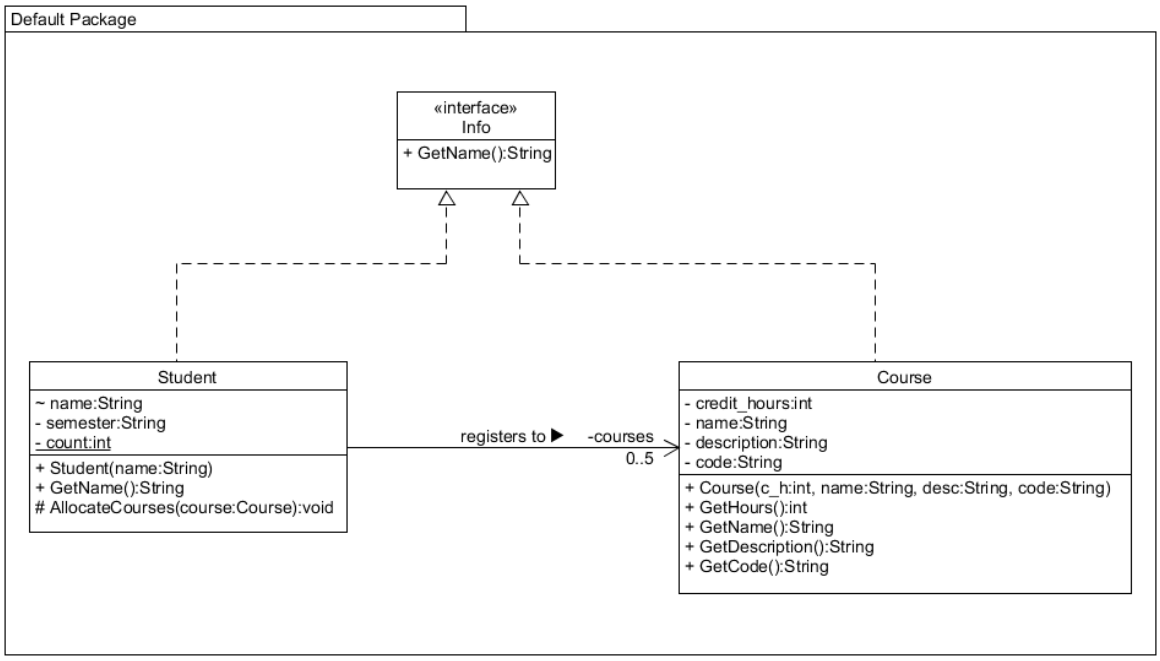


Look at the class diagram above carefully.

The code below is based on the diagram given above. Suppose, you fix all the errors, what will be the output of the program?

```
1   public class MainProgram {
2       public static void main(String[] args)
3       {
4           Student student = new Student("Ahmad");
5           student.name = "Aamir";
6           Course course = new Course("3", "SE", "Software Engineering", "CSE312" );
7           student.AllocateCourse(course);
8           System.out.println(student.GetName());
9       }
10  }
```

- A.
  Ahmad
- B.
  Aamir
- C.
  null
- D.
  The program will exit without showing an error



Look at the class diagram above carefully. Then look at the code given below and mark the lines where you find errors. Keep in mind that if you select a wrong option, it will negate a right option that you have selected.

```
1   public class Course extends Info{
2       private String credit_hours;
3       private String name;
4       private String description;
5       private String code;
6       public void Course(int c_h, String name, String desc, String code ) {
7           this.credit_hours = c_h;
8           this.name = name;
9           this.description = desc;
10          this.code = code;
11      }
12      public String GetHours() {return credit_hours;}
13      public String GetName() {return name;}
14      public String GetDescription() {return description;}
15      public String GetCode() {return code;}
16  }
```

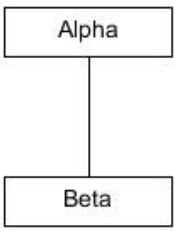
- [ ] A. 1
- [ ] B. 2
- [ ] C. 3
- [ ] D. 4
- [ ] E. 5
- [ ] F. 6
- [ ] G. 7

- [ ] H. 8
- [ ] I. 9
- [ ] J. 10
- [ ] K. 11
- [ ] L. 12
- [ ] M. 13
- [ ] N. 14
- [ ] O. 15
- [ ] P. 16

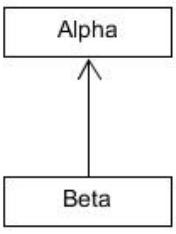
Look at the code below:

```
class MainClass
{
   public static void main(String[] args)
   {
      Beta beta;
      Alpha alpha = new Alpha();
      beta = alpha.GetBeta();
      alpha = null;
   }
}

class Alpha
{
   Beta temp;
   public Beta GetBeta()
   {
      temp = new Beta()
      return temp;
   }
}

class Beta
{
}
```

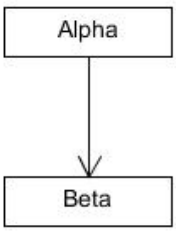
Select the correct relationship between the classes



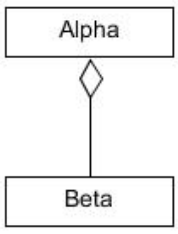
(A)



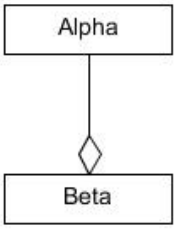
(B)



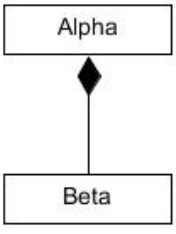
(C)



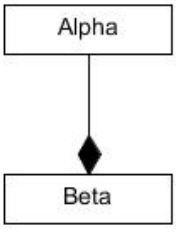
(D)



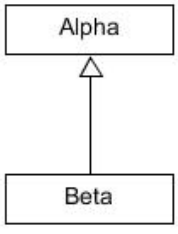
(E)



(F)



(G)



(H)

- A. A
- B. B
- C. C
- D. D
- E. E
- F. F
- G. G
- H. H