You must add a *sing* method to the *Bird* class, then modify the *main* method accordingly so that the code prints the following lines:

I am walking
I am flying
I am singing

```
class Animal{
    void walk() {
        System.out.println("I am walking");
    }
}

class Bird extends Animal {
    void fly() {
        System.out.println("I am flying");
    }

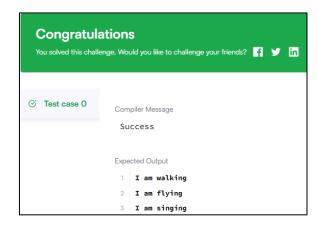
    void sing() {
        System.out.println("I am singing");
    }
}

public class Solution {

    public static void main(String args[]) {

        Bird bird = new Bird();
        bird.walk();
        bird.fly();
        bird.sing();

}
```



Write the following code in your editor below:

- 1. A class named *Arithmetic* with a method named *add* that takes 2 integers as parameters and returns an integer denoting their sum.
- 2. A class named Adder that inherits from a superclass named Arithmetic.

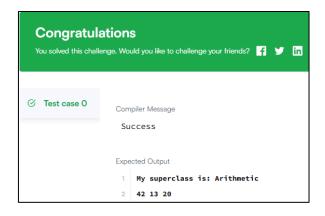
Your classes should not be public.

```
import java.io.*;
import java.util.*;

class Arithmetic {
    public int add(int a, int b) {
        return a + b;
    }
}

class Adder extends Arithmetic {}

public class Solution {
    public static void main(String[] args) {
        Adder adder = new Adder();
        System.out.println("My superclass is: Arithmetic");
        System.out.println(adder.add(20, 22) + " " + adder.add(7, 6) + " " + adder.add(10, 10));
    }
}
```



Task

You are given two classes, *Person* and *Student*, where *Person* is the base class and *Student* is the derived class. Completed code for *Person* and a declaration for *Student* are provided for you in the editor. Observe that *Student* inherits all the properties of *Person*.

Complete the *Student* class by writing the following:

- A Student class constructor, which has 4 parameters:
 - 1. A string, **firstName**.
 - 2. A string, lastName.
 - 3. An integer, idNumber.
 - 4. An integer array (or vector) of test scores, **scores**.
- A *char calculate()* method that calculates a Student object's average and returns the grade character representative of their calculated average:

```
import java.util.*;
     protected int id;
     public Person(String firstName, String lastName, int id) {
     public void printPerson() {
          System.out.println("Name: " + lastName + ", " + firstName);
System.out.println("ID: " + id);
          super(firstName, lastName, id);
     public char calculate() {
          else if (avg >= 80) return 'E';
else if (avg >= 70) return 'A';
          else if (avg >= 70) return 'P';
else if (avg >= 55) return 'P';
else if (avg >= 40) return 'D';
else return 'T';
public class Solution {
     public static void main(String[] args) {
          int[] scores = new int[numScores];
```

