




Java Inheritance I

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Problem

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Using *inheritance*, one class can acquire the properties of others. Consider the following *Animal* class:

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

This class has only one method, *walk*. Next, we want to create a *Bird* class that also has a *fly* method. We do this using *extends* keyword:

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

Finally, we can create a *Bird* object that can both *fly* and *walk*.

```
public class Solution{
    public static void main(String[] args){

        Bird bird = new Bird();
        bird.walk();
        bird.fly();
    }
}
```

The above code will print:

```
I am walking
I am flying
```

This means that a *Bird* object has all the properties that an *Animal* object has, as well as some additional unique properties.

The code above is provided for you in your editor. 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
```



Max Score:5

Difficulty: Easy

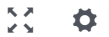
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Java 7



```
1 ▶ import ↔;
6
7 ▼ class Animal{
8 ▼     void walk(){
9         System.out.println("I am walking");
10    }
11 }
```

```
12
13
14 ▼ class Bird extends Animal{
15 ▼     void fly(){
16         System.out.println("I am flying");
17     }
18 }
19
20
```

```
21 ▶ public class Solution{↔}
```

Line: 11 Col: 1

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☐ Test against custom input

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