

Generics

CSC 210 Practice Exercises

Generic classes

Write a generic class that takes two values of any type. Write setters and getters for it (follow the principles of encapsulation).

Here's a JUnit test, make sure your solution would pass this test.

```
@Test
void test() {
    MyClass<Integer, String> myObject = new MyClass();
    myObject.setA(99);
    myObject.setB("hello");
    assertTrue(myObject.getA() instanceof Integer);
    assertTrue(myObject.getB() instanceof String);
}
```

Answer

```
public class MyClass<A, B> {
    private A valueA;
    private B valueB;

    public void setA(A a) {
        valueA = a;
    }

    public void setB(B b) {
        valueB = b;
    }
}
```

```
}  
  
public A getA() {  
    return valueA;  
}  
  
public B getB()  
{  
    return valueB;  
}  
}
```