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Homework 10

CS 249
December 6, 2016

1. In Java, write a generic class MyClass that has a type parameter E

```
public class MyClass<E> {

}
```

2. In Java, write a generic class YourClass that has a type parameter E that extends Number

```
public class YourClass<E extends Number> {

}
```

3. In Java, write a generic class OurClass that has a type parameter E that implements Comparable.

```
public class OurClass<E> implements Comparable<E> {

	@Override
	public int compareTo(E arg0) {
		// TODO Make stuff to be compared
		return 0;
	}
}
```

4. In Java, write a generic method doNothing() that is public, non-static, returns void, takes an array of type E, and has an empty body.

```
public void doNothing(E[] stuff) {

	}
```

5. Is the following Java code correct? If not, why not? **ArrayList<int > list = new ArrayList <>();**
   a. No, you cannot have an ArrayList of primitives.

6. Which of the following is TRUE about Generics?
   a. Generic information is available at compile time AND runtime.

7. You CANNOT write a class that extends Throwable and uses generic types.
   a. True