

CSC 212 Tutorial # 0

Revision

Problem 1

Consider the following generic interface:

```
public interface Condition<T> {  
    boolean test(T data);  
}
```

1. Complete the method *search* below that takes as input a generic array *data* of size *n* and a *Condition cond*. The method returns the index of the first element in *data* that satisfies the condition (that is, for which *cond.test()* returns true), or -1 if no such element exists.

```
public class Utils {  
    public static <T> int search(T[] data, int n, Condition <T>  
        cond) {  
        ...  
    }  
}
```

2. Using the method *search* above, write the method *searchEven*, member of *Utils* that finds the first even number in an array of integers. You need to write the appropriate implementation of the interface *Condition*.

Problem 2

1. Write the method *reverseArray* that reverses an array of *n* elements. You have to define the signature of the method.
2. Write the method *isIncreasing* that checks if an array is sorted in increasing order. You have to define the signature of the method.