

# York Programming Contests

September 19, 2013

# How Do You Compete?

- Read **all** questions (some are easier than others) and extract the essential information.
- Pick a question (watch the scoreboard).
- Sketch a solution on paper.
- Code your solution.
- Test your solution.
- Submit your solution.

# How Do You Process Input?

```
import java.util.Scanner;
import java.io.PrintStream;

public class {
    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);
        PrintStream out = System.out;

        int n = in.nextInt(); // number of test cases
        for (int i = 0; i < n; i++) {
            // process each test case
        }
    }
}
```

# How Do You Process Input?

```
import java.util.Scanner;
import java.io.PrintStream;

public class {
    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);
        PrintStream out = System.out;

        int n = in.nextInt();
        while (n != 0) {
            // process the rest of the test case

            n = in.nextInt();
        }
    }
}
```

# How to Test Your Code?

- Save the sample input into a file, say `A.in`. Use copy and paste.
- Save the sample output into a file, say `A.out`. Use copy and paste.
- Test: `java A < A.in | cmp A.out`  
If this produces no output, your code works correctly for the sample input.

# Have Fun!

Today's questions can be found at the URL

[www.cse.yorku.ca/acm](http://www.cse.yorku.ca/acm)