## **KEY**

## Computer Science: Program Your Own RPG

Things we've learned:

```
Variables:
boolean
            \\true, false
            \\ 'a', 'b', ' '
char
            \\ "Hello World!"
String
            int
double
                   \\ 0.0, 1.5, 0.0000001
Arithmetic Operators:
int x = 20; int y = 4;
            +
/
            \backslash \backslash x / y
*
            %
            \backslash \backslash X = y
+=
            \setminus \setminus x += y
            \setminus \setminus X = y
_=
/=
            \setminus \setminus x /= y
*=
            \setminus \setminus X *= V
\frac{9}{0} =
            \\ x %= y
Boolean Operators:
boolean b = true; boolean c = false;
&&
            \\ b && c (and)
\| b \| c (or)
            \\ !b (not)
!
Relational Operators:
double x = 2.5; double y = 2.3;
==
            <=
            <
            A Class <name>.java:
public class <name>{ ....}
Main Method:
public static void main(String[] args){ ....}
Using Arguments:
args[0], args[1], ...
                   \\the first argument, the second argument, ...
```

```
Compiling:
javac <name>.java
java <name> <optional arguments>
dir (see all the files), cd (change directory), G: (change drives)
Casting and converting types:
String s = "4"
int i = Integer.getInt(s);
double d = Double.getDouble(s);
i = (int)d;
d = (double)i/4;
s = "" + 5;
If statements:
if(<boolean operation>){ ... }
else if (<boolean operation>) { ... }
else{ ... }
Block of code: {...}
Statement: ....;
Package: A folder which holds many classes
Importing:
import java.util.Scanner
                              \\Import one thing
import java.util.*
                              \\Imports everything
Using the Scanner:
Scanner input = new Scanner();
String s = input.nextLine();
Int I = input.parseInt();
Double d = input.parseDouble();
input.close();
Checking for errors:
try{
}catch(Exception e){ ... }
Comments:
\\ One line comment
*Multiline comment.
-Parenthesis work just as they do in math.
```