For Your Reference

Operator Precedence Table

Precedence	Operator
	var++ and var (postfix)
	+,- (Unary plus and minus), ++var andvar (prefix)
	(type)(Casting)
	! (Not)
	*,/,% (Multiplication, division, and remainder)
	+,- (Binary addition and subtraction)
	<,<=,>,>= (Relational)
	==,!= (Equality)
	^ (Exclusive OR)
	&& (AND)
	(OR)
V	=,+=,-=,*=,/=,%= (Assignment operator)

Methods

You may find all, some, or none of these methods useful. Descriptions are taken from the textbook or the Java 8 Specification; some have been slightly abbreviated for space.

Methods from the Scanner (java.util.Scanner):

Scanner(System.in)	creates a Scanner that reads from the keyboard
void close()	closes the scanner
boolean hasNext()	returns true if this scanner has another token in its input
boolean hasNextInt()	returns true if the next token can be interpreted as an int
boolean hasNextDouble()	returns true if the next token can be interpreted as a double
boolean hasNextLine()	returns true if there's another line of input
String next()	reads a String that ends with a whitespace character
<pre>int nextInt()</pre>	reads an integer of the int type
double nextDouble()	reads a number of the double type
String nextLine()	reads a String that ends with a newline character

Methods from the Math class (java.lang.Math):

double random()	returns a double value [0.0, 1.0)
double pow(double a, double b)	returns a raised to the power of b (ab)
double sqrt(double a)	returns the square root of a (\sqrt{a}) for a >= 0
double floor(double a)	a is rounded down to its nearest integer, returned as double
double ceil(double a)	a is rounded up to its nearest integer, returned as double
long round(double a)	a is rounded to the closest integer, returned as long

Methods from the Character class (java.lang.Character):

boolean isDigit(char c)	returns true if c is a digit
boolean isLetter(char c)	returns true if c is a letter
boolean isLowerCase(char c)	returns true if c is a lowercase letter
boolean isUpperCase(char c)	returns true if c is an uppercase letter
char toLowerCase(char c)	returns the lowercase version of $\ensuremath{\mathtt{c}}$
char toUpperCase(char c)	returns the uppercase version of $\ensuremath{\mathtt{c}}$

Methods from the String class (java.lang.String):

int length()	returns the number of characters in this string
char charAt(int index)	returns the character at the specified index in this string
String toLowerCase()	returns a new String with all letters in lowercase
String toUpperCase()	returns a new String with all letters in uppercase
boolean equals(String s1)	returns true if this string is equal to string s1
int compareTo(String s1)	returns an integer > 0, == 0, or < 0 to indicate whether this string is greater than, equal to, or less than s1
boolean contains(String s1)	returns true if s1 is a substring of this string
<pre>int indexOf(String s1)</pre>	returns the index of the first occurrence of string s1 in this string. Returns -1 if not matched.
<pre>int indexOf(String s1, int index)</pre>	returns the index of the first occurrence of string s1 in this string after index. Returns -1 if not matched.
String substring(int begin)	returns this string's substring that begins with the character at the specified begin index and extends to the end of the string
String substring(int begin, int end)	returns this string's substring that begins at the specified begin index and extends to the character at end - 1.