CSE 143X Section Handout #1 Cheat Sheet

Primitive types (2.1)

Туре	Description	Examples
int	integers	42 ,- 3,92851
double	real numbers	3.14,2.0
char	a character of text	'a', 'X',
		'\n'
boolean	logical values	true, false

Expressions (2.1)

- precedence: () before */% before +-
- with int, / is integer quotient and % is integer remainder
- Strings can be *concatenated* with other values

1 2 2 2	*	2	+ + +	3 * 3 * 15 3	5 5	/ / /	4 4 4	"\$" + 9.0 / 4.0 + 1 "\$" + 2.25 + 1 "\$2.25" + 1 "\$2.251"
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Arithmetic Operators			
Operator	Meaning		
+	addition		
-	subtraction, negation		
*	multiplication		
/	division		
010	remainder ("modulus")		

(repeats a group of statements a fixed number of times)

Variables (2.2)

type name; name = value;	declaration (creates a variable but doesn't give it any value) assignment (stores a value into a variable)
type name = value;	declaration/initialization (creates a variable and stores a value into it)
int x;	

int y = 3; x = 1 + y * 2; // x stores the value 7

The for loop (2.3)

```
for (initialization; test; update) {
    statement;
    statement;
}
for (int i = 1; i <= 10; i++) {
    System.out.println(i + " squared is " + (i * i));
}</pre>
```

Nested for loops (2.3)

```
for (int line = 1; line <= 5; line++) {
    for (int j = 1; j <= (-1 * line + 5); j++) {
        System.out.print(".");
    }
    System.out.println(line);
}</pre>
```


Class constants (2.4)

public static final type name = value; public static final int DAYS_PER_WEEK = 7;