

Styling Conventions



Partial Walkthrough

4. Indentation

- Indent size: 3-4 spaces or 1 tab
- Maximum line length: 80 characters
- Where to break:
 - ◆ After a comma
 - ◆ Before an operator
 - ◆ Indent at least once
 - ◆ Make it look nice

5. Comments

- Submission block: copy/paste
- DO NOT translate code to comment
- Block comment: after a blank line, attached to the next line and indented the same.
- Single line comment: at the end of the line
- Always separate comment + code from the rest of the code with a blank line above and below.

6. *Declarations*

- One variable per line.
- Initialize when declared (where possible).
- Place all at the beginning (except for-loops).
- Insert a blank line between last variable and first statement.

7. Statements

- One statement per line.
- Opening braces { at the end of opening statement line.
- Each block should be indented once.

if, if-else

```
if (condition) {  
    statement;  
}
```

```
if (condition) {  
    statement;  
} else {  
    statement;  
}
```

```
if (condition) {  
    statement;  
} else if (condition) {  
    statement;  
} else if (condition) {  
    statement;  
}
```

for

```
for (initialization; condition; increment) {  
    statement;  
}
```

```
for (initialization; condition; increment);
```

```
for (initialization;  
     condition;  
     increment) {  
    statement;  
}
```

while

```
while (condition) {  
    statement;  
}
```

```
while (condition);
```

```
do {  
    statement;  
} while (condition);
```

switch

```
switch (value) {  
  case '1':  
    statement;  
    break;  
  case '2':  
    statement;  
    break;  
  default:  
    break;  
}
```

8. Whitespaces

- Between a keyword and the parenthesis.
- After a comma in parameters list.
- Between binary operators and their operands.
- NOT between a unary operator and its operand.

```
a += c + d;  
a = (a + b) / (c * d);  
while (d++ = s++) {  
    n++;  
}  
printSize("size is " + foo + "\n");
```

9. Naming

- Constants: all capital letters, words separated by an underscore:

```
private static final float MAXIMUM_VALUE = 20.0f;
```

- Methods: camel casing, verbs.

```
private void getMaximumValue() {
```

- Variables: camel casing, at least one word.

```
char userChoice = DEFAULT_USER_CHOICE;  
for (int currentCharacter = 0;  
     currentCharacter < inputText.length();  
     currentCharacter++) {
```

Indentation + Comments Examples

```
/* denotes the maximum number */
private static final int MAX = 100;

public static void main(String[] args) {
    int a = 0;
    int b = 5;           // I chose 5 because it's prime
    int c = b;

    // this line does something
    double x = Math.sqrt(0.16);

    // the following two lines do this and that
    int y = (int)x / 2 + a * b - Math.ceil(Math.pow(c, a)) - b
           + Math.PI;
    y *= 2;

    x = Math.pow(x, y);           // I've got the power!
}
```