

STYLE GUIDELINES
CS1428 Spring 2018
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Header comments (file documentation block) should be at the top of each file and should contain: File Name, Author(s), Date, Assignment Number, Course number and section, Instructor, and a brief description of the purpose of the code in the file.

```
// File Name: assign1_js108.cpp
//
// Author: (Your name here, followed by co-authors if any)
// Date: 1/23/2018
// Assignment Number: 1
// CS 1428.302 Spring 2018
// Instructor: Jill Seaman
//
// (Description of what the program does goes here).
```

#include directives must follow header comments, before the rest of the program.

Variable names:

- must be meaningful
- loop index names can be simple (i, j, k, etc)
- The initial letter should be lowercase, following words should be capitalized, no other caps or punctuation (ie: weightInPounds). This is called "camel case".

Named constants:

- use for most numeric literals, including array sizes
- all capitals with underscores (ie: TX_STATE_SALES_TAX)
- should occur near the top of the program

DO NOT USE GLOBAL VARIABLES!! (all variables should be defined INSIDE of a function)

Line length of source code should be no longer than 80 characters (no wrapping of lines).

Indentation:

- Use 2-4 spaces (but be consistent throughout your program).
- Indent blocks, within blocks, etc.
- Use blank lines to separate sections.

Comments for variables and functions:

All variable declarations should be commented as follows:

```
int rank; // numeric value for a card, A=1, J=11, Q=12, K=13
```

Function definitions should be commented to describe what it does, what the parameters are, and what the function returns (when appropriate). See the template and the example below. If the function body contains more than about five statements, there should be comments to describe the various sections of code in the function body.

Template:

```
/**
 * function name: short description of what the function does.
 */
// param-1 description of first parameter (if any)
// param-2 description of second parameter (if any)
// (remaining params, if any)
// returns: description of what function returns (if not void)
/**
```

Example:

```
/**
 * getBestPlayer: determines which player scored the most points
 * p the array of player information
 * size the number of players in the array
 * returns the name of player who scored the most points
 */
```

```
string getBestPlayer(Player p[], int size) {
    // function body goes here
}
```

In-code comments:

DO NOT comment every line of code! In general, try to avoid using comments that describe WHAT the code is doing. These are redundant (we can just read the code). Comments that explain WHY the code is doing what it is doing are more helpful. Try to minimize in-code comments, and write readable code instead.