

## Coding Guidelines

This is a work in progress. More may be added, all group members will be informed if any changes are made.

### GENERAL

- All basic guidelines from labs should be followed, such as splitting all files into .h and .cpp files.

### COMMENTS

- In .cpp files, comments should be added whenever needed for readability and understandability - others will be looking at your code.
- All header files should start with a comment block of the format:

```
/******  
***** (class name) *****  
*****  
* Author: (author name) (percentage contributed)  
* Author: (author name) (percentage contributed)  
*  
* (class description)  
*****  
**** USAGE ****  
*****  
* (how to use this class)  
*****/
```

*continued...*

- All functions in header files should be preceded by a comment block of the format: (unused tags may be omitted, such as @return when void is returned, or @param when there are no parameters)

```
/**
 * (function name)
 *
 * @brief Brief description
 *
 * @detail If needed, detailed description
 *
 * @param (param name) (description of param)
 *
 * @param (param name) (description of param)
 *
 * @post (if this function modifies data, describe it here. Ex. a passed array
 *       gets sorted)
 *
 * @return (description of what is returned)
 */
```

## Exceptions

- If an exception is to be thrown, an exception class must be created in a .h file.
  - You must #include and inherit from <exception>
  - You must overload the what() function.
- No string exceptions allowed.