

```
// I promise that the work submitted here is solely my own.  
//  
// mbeltz
```

What was done: As per requirements I went through the code and made improvements. First I went through and renamed variables so they are more clear to the reader. All functions were placed in a single file. A generic sort class was also created so that each individual sort could inherit data from that class. This was made as an abstract class with the virtual method sort that each sorting algorithm pulled from. The Main driver class was also modified so that a user will be able to choose which of the sorting algorithms are used. I then separated the classes into a header file and cpp file which was called by the driver file to further separate the files. I made the decision to not separate each class into its own file to minimize the use of extra files that I deem to be unnecessary.

Future recommendations: The using of inheritance here feels misplaced. The creation of the sub class with the inheritance for the individual sorts feels like an unnecessary use of a class and inheritance. Given that each sort only has 1 to 2 methods there are better ways to store the data. For future improvements I would recommend looking into better ways to store said data so as to not add unnecessary complexity. Perhaps a single class or a namespace to ensure that the classes are still connected and allow for more reuse of code would be more applicable. I have already separated the file into a single header file and cpp file. It would be easy to convert into a single class or namespace from there.