Project State (5%): In a folder (directory) named State provide a brief report (.pdf preferred) that addresses the following:

- Describe any problems encountered in your implementation for this project.
   I had some problem making the merge function. I also had problem writing the decode program.
  - 2. Describe any known bugs and/or incomplete implementation in the project milestone. The decode program does not work.
- 3. While this project is to be completed individually, describe any significant interactions with anyone (peers or otherwise) that may have occurred.

I have not at this moment had any significant interactions with anyone (peers or otherwise) for this project.

4. Cite any external books, and/or websites used or referenced. website(s):

https://www.tutorialspoint.com/cplusplus/index.htm http://www.augustcouncil.com/~tgibson/tutorial/iotips.html https://www.geeksforgeeks.org/vector-in-cpp-stl/