Operating System Homework 3

There are three main important functions:

1. `initialize_array()`

   This function is responsible for splitting the original array into two sub-arrays. Each sub-array will be processed by a thread and Merge Sorting algorithm will be called upon the thread.

2. `merge_sort()`

   This function responsible for merge-sorting each of the sub-arrays in the thread.

3. `subarray_merger()`

   This function responsible for merging the sorted sub-arrays into a single array.