```
1   // Illustrate using CreateThread in gthreads
2   // George F. Riley, Georgia Tech, ECE3090, Spring 2012
3
4   #include "gthread.h"   // Must be included to use the gthreads library
5
6   void BubbleSort(int* d, int startingPoint, int length)
7   { // This is the thread starting point
8     // This is where, in this example, the sorting of array d will be done
9     EndThread();  // Call this just before exiting
10  }
11
12  const int nThreads = 4;      // Number of threads desired
13  const int maxSize = 512000;  // Largest sort size
14
15  int main()
16  {
17    int d[maxSize];            // Array to be sorted
18    int start = 0;             // Starting point of sub-array
19    int lengthPerThread = maxSize / nThreads;    // Length of sub-array
20    for (int k = 0; k < nThreads; ++k)
21      { // Create each of the four sorting threads
22        CreateThread(BubbleSort, d, start, lengthPerThread);
23        start = start + lengthPerThread;
24      }
25    // At this point all threads are created
26    WaitAllThreads();  // This waits until all child threads are done
27    // Perform the merge procedure to merge the separate sub-arrays
28  }
29
30
31
```

Program create2.cc