***SerialParallelSort.java***

import java.util.\*;

class SerialParallelSort {

public static void main(String[] args) {

int a[] = new int [] {2, 78, 35, 53, 120, 3, 1};

int b[] = new int [] {2, 78, 35, 53, 120, 3, 1};

System.out.println("Array elements before sort");

for (int i = 0; i < a.length ; i++ ) {

System.out.print(a[i] + " ");

}

long start = System.currentTimeMillis();

System.out.println("\nSerial Sort Started");

Arrays.sort(a);

System.out.println("Sorted elements are:");

for (int i = 0; i < a.length ; i++ ) {

System.out.print(a[i] + " ");

}

long end = System.currentTimeMillis();

System.out.println("\nSerial Sort Time: " + (end - start) + "ms");

start = System.currentTimeMillis();

System.out.println("Parallel Sort Started");

Arrays.parallelSort(b);

System.out.println("Sorted elements are:");

for (int i = 0; i < b.length ; i++ ) {

System.out.print(b[i] + " ");

}

end = System.currentTimeMillis();

System.out.println("\nParallel Sort Time: " + (end - start) + "ms");

}

}

**Output:**

