I am having some problems with my program because of Memory.   
"Exception in thread "main" java.lang.OutOfMemoryError: Java heap space"  
 I tried the my program in two different computers. On my laptop i tried changing virtual memory to 10gb and changing the -Xms and -Xmx Parameters but still don't work.   
  
Processor: Intel Core 2 Duo 2.13Ghz  
Ram: 4.00 GB  
64-Bit OS  
  
Power    Generation      Heap             Merge                           Insertion        
10^3      0:00.192         0:00.014      0:00.291                       0:00.013         
10^5      0:00.064         0:00.182     0:08.857                     1:30.509         
10^7      0:02.68          0:41.358      MEMORY PROBLEM   MEMORY PROBLEM  
10^9      MEMORY PROBLEM FOR ALL

Generation= How long it take to Generatate the Arraylist of Random Numbers

Heap = How long it takes to sort the arraylist with Heap sorting

Merge = How long it takes to sort the arraylist with Merge sorting

Insertion = How long it takes to sort the arraylist with Insertion sorting

OUTPUT:

---------------

Processor: Intel Core 2 Duo 2.13Ghz

Ram: 4.00 GB

64-Bit OS

---------------

Time Format: Minutes:Seconds.Miliseconds

---------------

Generation= How long it take to Generatate the Arraylist of Random Numbers

Heap = How long it takes to sort the arraylist with Heap sorting

Merge = How long it takes to sort the arraylist with Merge sorting

Insertion = How long it takes to sort the arraylist with Insertion sorting

---------------

Power Generation Heap Merge Insertion

10^3 0:00.0030 0:00.01 0:00.024 0:00.014

10^5 0:00.034 0:00.109 0:16.349 0:51.599

10^7 0:03.858 0:40.448 MEMORY MEMORY

10^9 MEMORY PROBLEM FOR ALL