**For MergeSort:**

1000000 999999 999998 999997 999996 999995 999994 999993 999992 999991

Time=192

1 2 3 4 5 6 7 8 9 10

5000000 4999999 4999998 4999997 4999996 4999995 4999994 4999993 4999992 4999991

Time=1019

1 2 3 4 5 6 7 8 9 10

7500000 7499999 7499998 7499997 7499996 7499995 7499994 7499993 7499992 7499991

Time=1209

1 2 3 4 5 6 7 8 9 10

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**For PriorityQueue:**

1000000 999999 999998 999997 999996 999995 999994 999993 999992 999991

Time=43

1 2 3 4 5 6 7 8 9 10

5000000 4999999 4999998 4999997 4999996 4999995 4999994 4999993 4999992 4999991

Time=106

1 2 3 4 5 6 7 8 9 10

7500000 7499999 7499998 7499997 7499996 7499995 7499994 7499993 7499992 7499991

Time=138

1 2 3 4 5 6 7 8 9 10

**All the above cases shows that Priority Queue is better than MergeSort**