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1 Welcome to DrJava. Working directory is C:\Users\hyej\Assign_3
2 > run Sortings.Testing
3 Enter the size of the array (the number should be equal or larger than 10 due to
  Radix sort):
4 [DrJava Input Box]
5 What is your preference?
6 1)Option 1: Random numbers for the array.
7 2)Option 2: Choose your own numbers for the array.
8 Select 1 or 2:
9 [DrJava Input Box]
10
11 An array with 10000 random integers has been created.
12
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18
 19 **In the first sort, the amount of time: 105004600 nanoseconds (=105.0046
 milliseconds)
 20 **After re-sorting, the amount of time: 64391500 nanoseconds (=64.3915
 milliseconds)
 21 -----[2.Heap Sort]

 22 After sorting:
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24
25 **In the first sort, the amount of time: 891000 nanoseconds (=0.891 milliseconds)
26 **After re-sorting, the amount of time: 279800 nanoseconds (=0.2798 milliseconds)
27 -----[3.Merge Sort]

28 After sorting:

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31 **In the first sort, the amount of time: 2729000 nanoseconds (=2.729 milliseconds)

32 **After re-sorting, the mount of time: 3001700 nanoseconds (=3.0017 milliseconds)

33 -----[4.Quick Sort]

34 After sorting:

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36
37 **In the first sort, the amount of time: 2629900 nanoseconds (=2.6299 milliseconds)
38 **After re-sorting, the amount of time: 562400 nanoseconds (=0.5624 milliseconds)
39 -----[5.Radix Sort]
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40 After sorting:
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42  
43 **In the first sort, the amount of time: 3874000 nanoseconds (=3.874 milliseconds)  
44 **After re-sorting, the amount of time: 2211300 nanoseconds (=2.2113 milliseconds)  
45 >
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