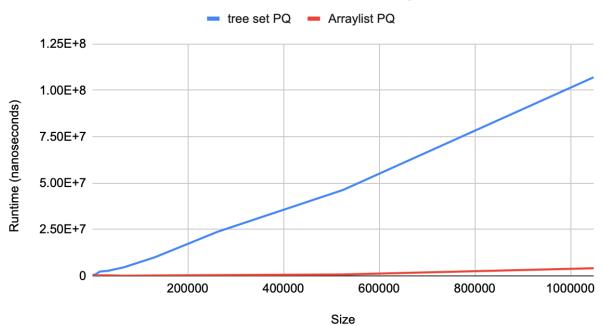
Lab06 Timing Experiments

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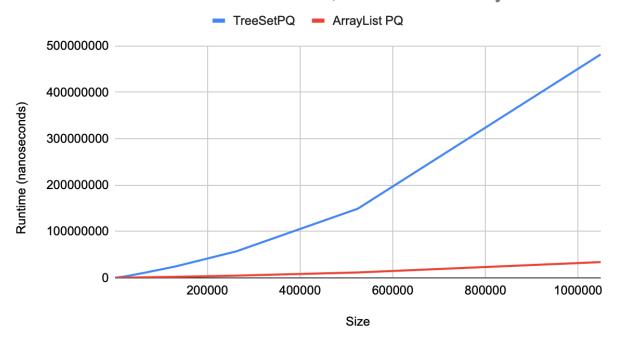
Creation Time Experiments

We tested the TreeSet and ArrayList implementations of the PQ interface we created. We tested both of the implementations for sizes of 2^10 to 2^20. We found that the TreeSet implementation took significantly more time to create a TreeSetPQ than an ArrayListPQ. This is what we expected.

Creation from a Sorted ArrayList



Creation time with unsorted, randomized arrayList



While Loop: calling removeMin until empty:

We tested the TreeSet and ArrayList implementations of the PQ interface we created. We tested both of the implementations for sizes of 2^10 to 2^20. We found that the ArrayList implementation was much faster at removing than the TreeSet. The TreeSet implementation uses pollFirst while our implementation uses percolateDown.



