

DESCRIPTION

This presentation compares the amount of time it takes to add 2^i unique items for all non-negative integer values of i to a list and the amount of time it takes to remove 2^i unique items from the front of the ArrayList for all non-negative integer values of i.

Both of these calculations were made until the until the computer ran out of memory or the time exceeded ten minutes.

Figure 1

Time It Takes to Add 2ⁱ Elements

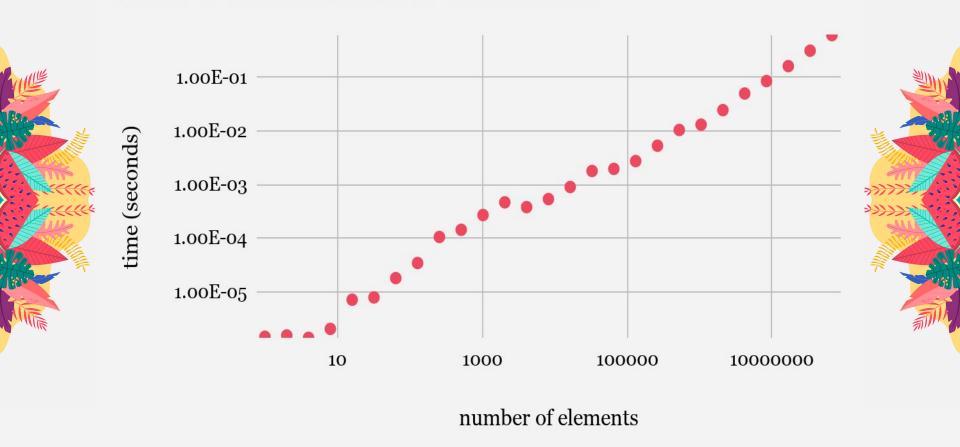


Figure 2

Time It Takes to Delete 2ⁱ Elements

