**Runtime Analysis Notes**

The results were as follows.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | tinyArr | smallArr | mediumArr | largeArr | extraLargeArr |
| insert | 0.0415 ms | 0.0534 ms | 0.1957 ms | 15.0889 ms | 1110.74 ms |
| append | 0.1041 ms | 0.1096 ms | 0.1537 ms | 1.3825 ms | 3.6769 ms |

The results were interesting, as they were consistent for the first two array sizes but then switched at mediumArr. For the tiny and small arrays, append took around twice as long to execute as insert. But in mediumArr and beyond, append became faster. The difference is pretty close for mediumArr, but for largeArr it’s almost a difference of x15 and extraLargeArr it’s a difference of around x300. Append may take longer at smaller sizes, but it scales way better.