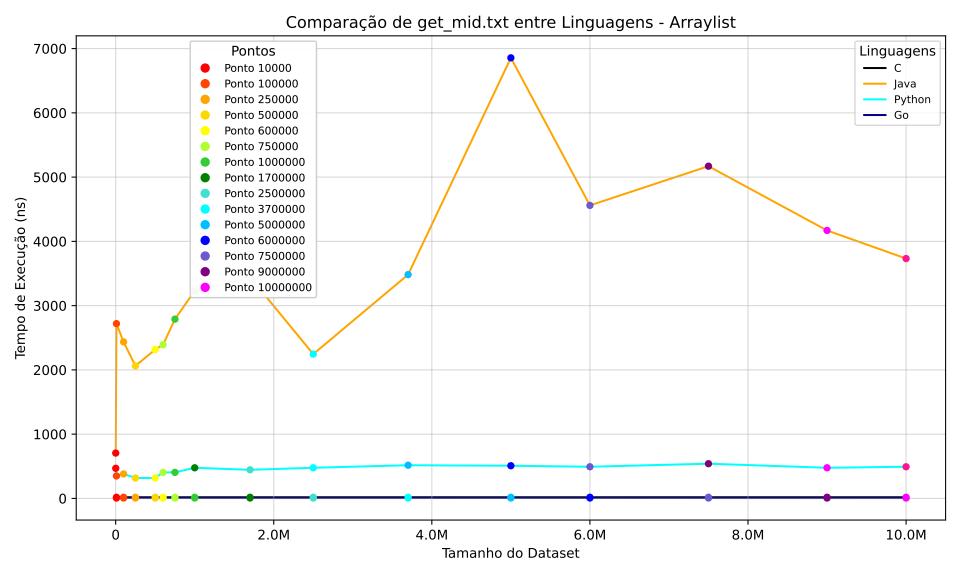
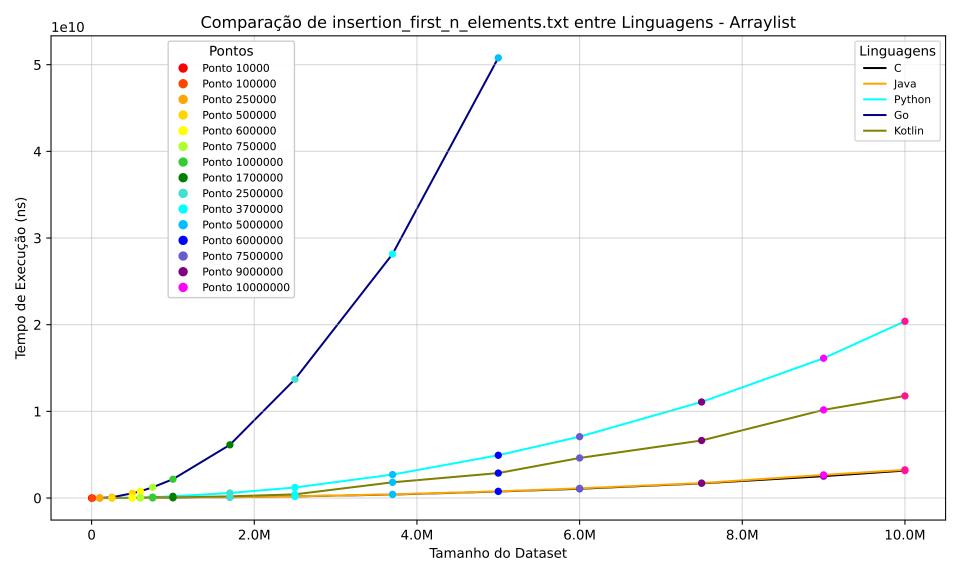
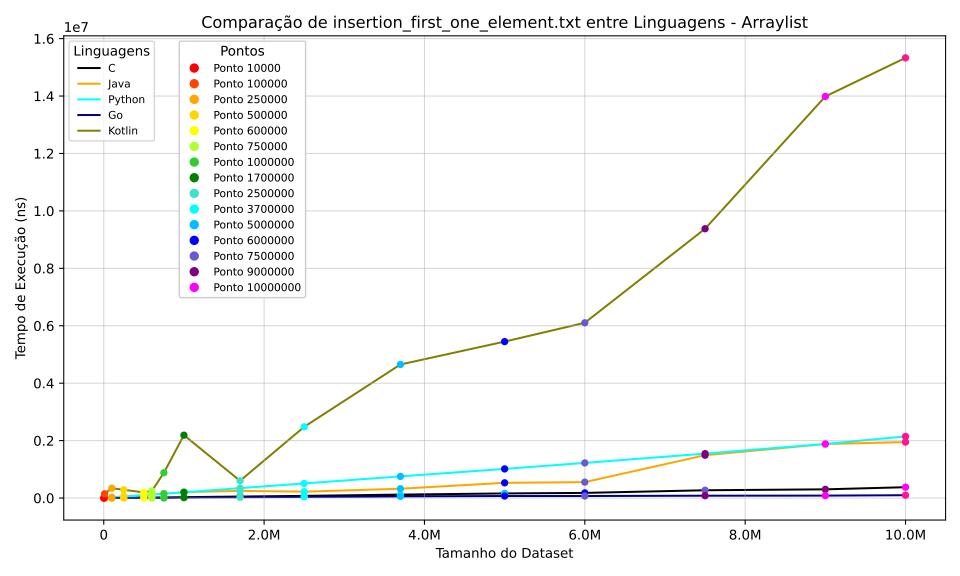
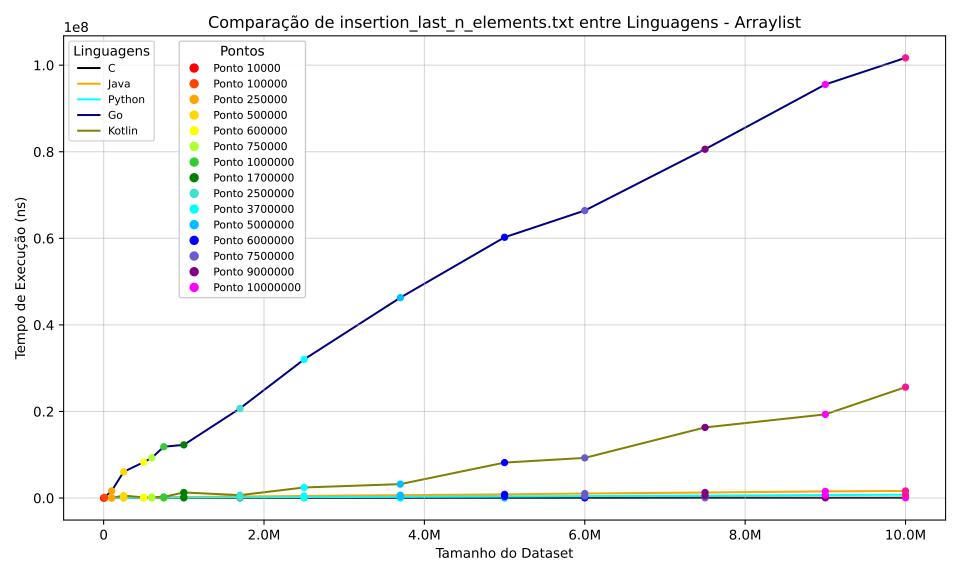


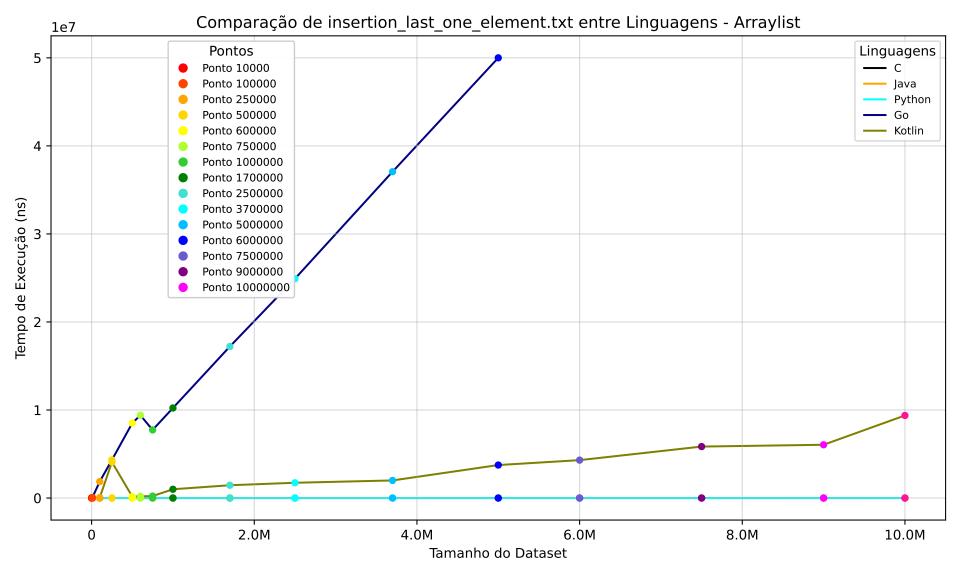
Comparação de get_last.txt entre Linguagens - Arraylist **Pontos** Linguagens Ponto 10000 6000 Ponto 100000 Java Ponto 250000 Python Ponto 500000 Go Ponto 600000 Kotlin 5000 Ponto 750000 Ponto 1000000 Ponto 1700000 Ponto 2500000 Execução (ns) 4000 Ponto 3700000 Ponto 5000000 Ponto 6000000 Ponto 7500000 Ponto 9000000 3000 Ponto 10000000 Tempo de 2000 1000 0 2.0M 4.0M 6.0M 8.0M 10.0M Tamanho do Dataset

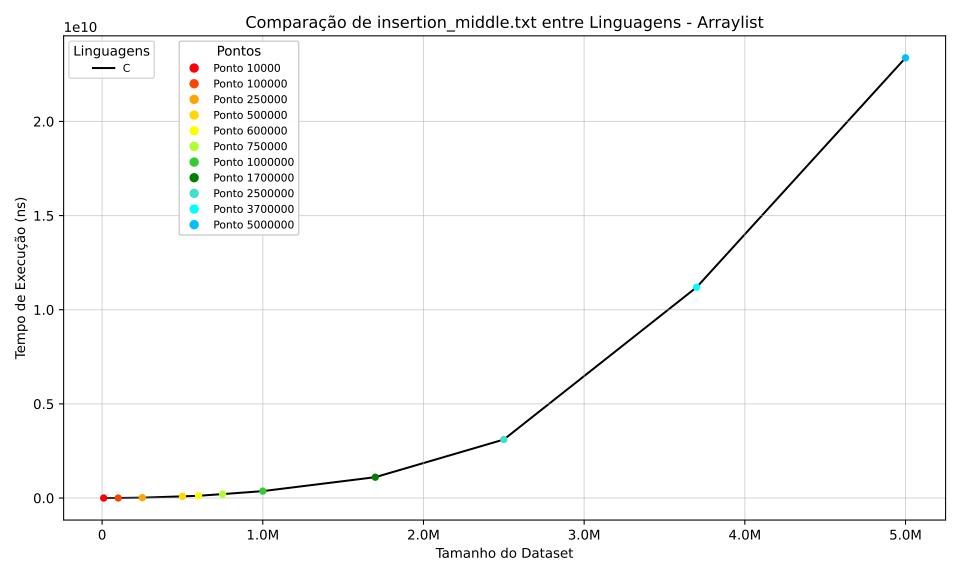


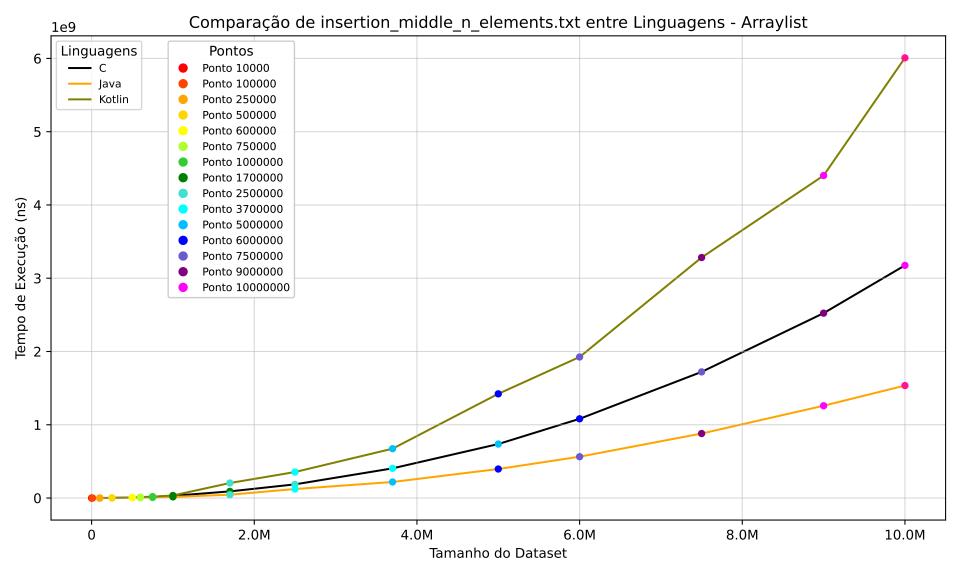


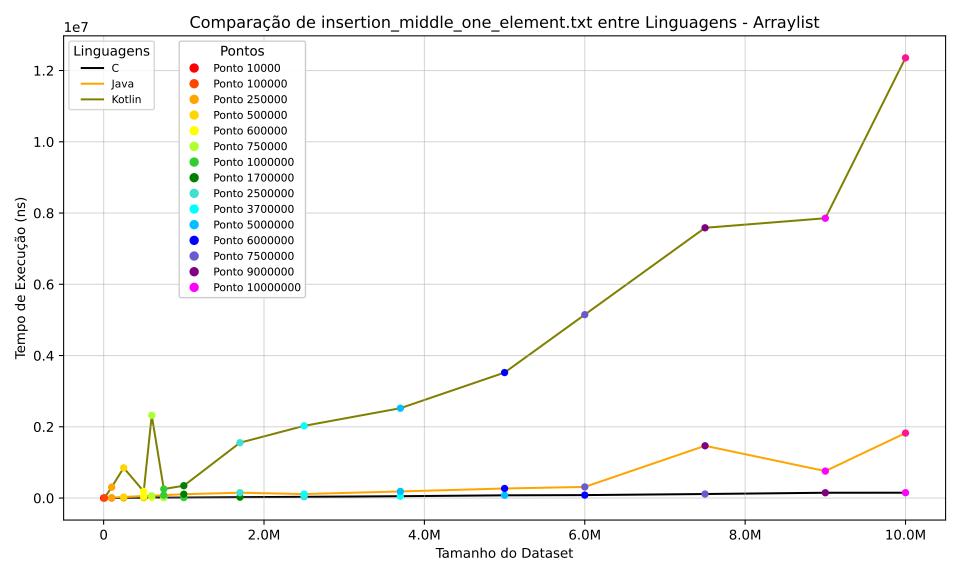


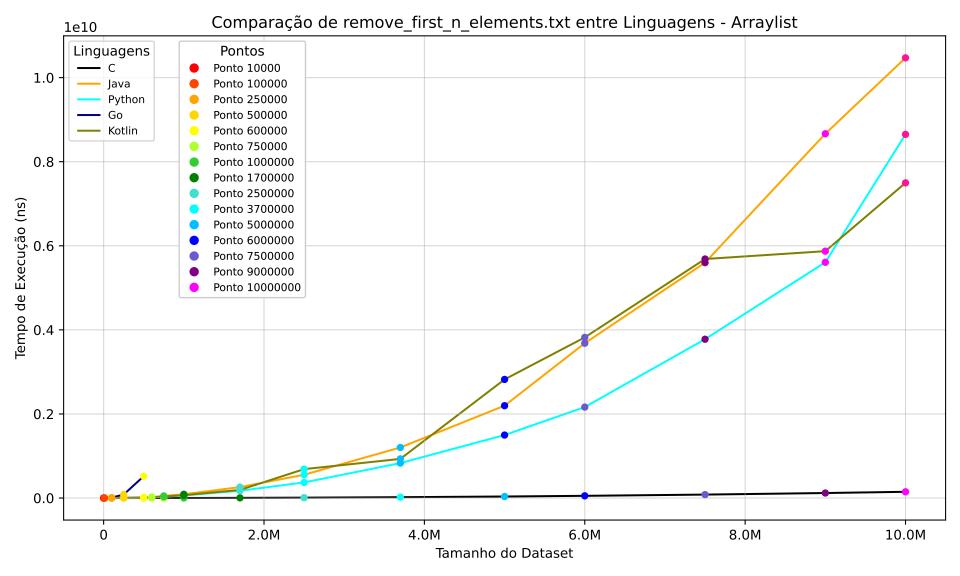












Comparação de remove_first_one_elements.txt entre Linguagens - Arraylist Linguagens **Pontos** 300000 -Ponto 10000 Ponto 100000 Ponto 250000 Ponto 500000 Ponto 600000 250000 Ponto 750000 Ponto 1000000 Ponto 1700000 Ponto 2500000 Execução (ns) 200000 Ponto 3700000 Ponto 5000000 Ponto 6000000 Ponto 7500000 Ponto 9000000 150000 Ponto 10000000 Tempo de 100000 50000 0 2.0M 6.0M 8.0M 10.0M 4.0M Tamanho do Dataset

Comparação de remove_last_n_elements.txt entre Linguagens - Arraylist Linguagens **Pontos** Ponto 10000 Ponto 100000 Java Python Ponto 250000 800000 Ponto 500000 Kotlin Ponto 600000 Ponto 750000 Ponto 1000000 Ponto 1700000 Ponto 2500000 600000 Execução (ns) Ponto 3700000 Ponto 5000000 Ponto 6000000 Ponto 7500000 Ponto 9000000 Ponto 10000000 Tempo de 400000 200000 0 10.0M 2.0M 6.0M 8.0M 4.0M

Tamanho do Dataset

