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Program 2 Proposal

1 Group Memebers

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2 Project & Language

Project: QuickSelect vs. DeterministicSelect
Language: C++

3 Tasks

1. Implement QuickSort.

2. Implement DeterministicSelect.

3. Modify one sorting algorithm to select the kth element.
   (Possible Option: QuickSort, MergeSort, InsertionSort).

4. Implment Bash script for sanity check on all three programs.

5. Implment Bash script for data gathering.

4 TimeTable

1. Data Size: $10^2, 10^3, 10^4, 10^5, 10^6$ integers.

2. Sample Size: 200 files.

3. Collectable Data: Time, Partitions, Compares.