PSA ASSIGNMENT - 04

Observation:

Optimal cutoff: ~ ¼ (SIZEofARRAY)

Optimal number of threads: 8

The optimal cutoff value is of the quarter of the total array size.

From the graphs, we see the avg time is declining until 8 threads and then there is no considerable decline with threads.

Output:

Threads and avg time:

Array Size: 20,000













Chart, bar chart

Description automatically generated

Array Size: 200,000













Chart, bar chart

Description automatically generated

Array Size: 2,000,000

















Chart, bar chart

Description automatically generated