

Section 09: Concurrency and Parallelism

1. Parallel QuickSort

(a) Fill out the table below with each respective recurrence for the best case span and runtime.

Quick Sort	Sequential Sort	Parallel Sort
Sequential Partition		
Parallel Partition		

(b) Which part of the recurrence is related to the Sequential Sort and explain why it is such?

(c) Which part of the recurrence is related to the Parallel Sort and explain why it is such?

(d) Which part of the recurrence is related to the Sequential Partition and explain why it is such?

(e) Which part of the recurrence is related to the Parallel Partition and explain why it is such?