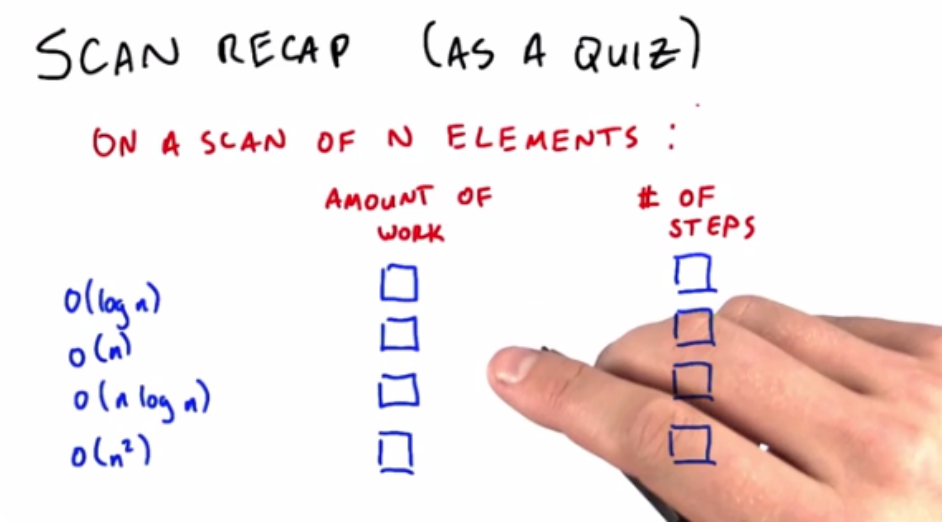
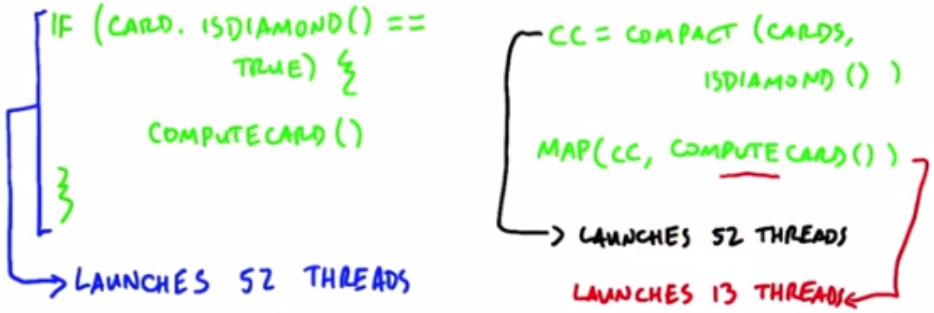
CS344 Introduction to Parallel Programming

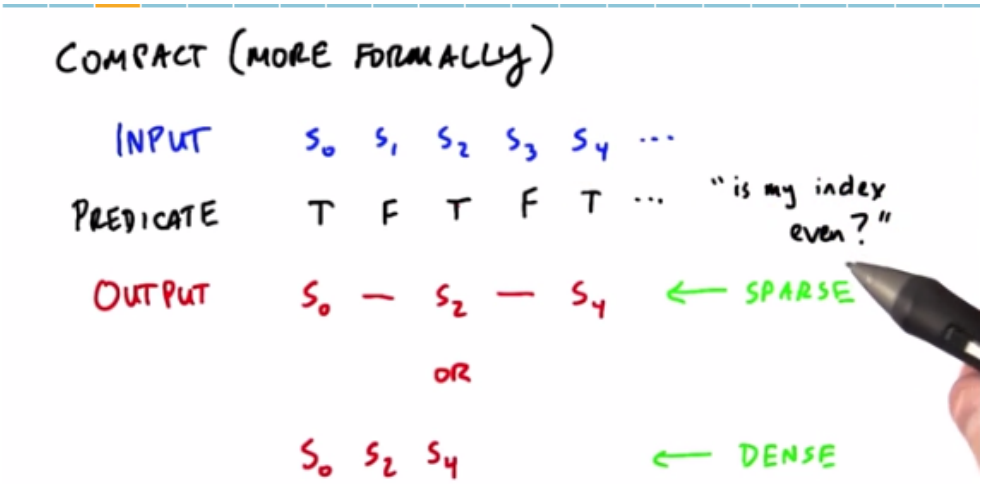
Lesson 4:Fundamental GPU Algorithms (Applications of Sort and Scan)

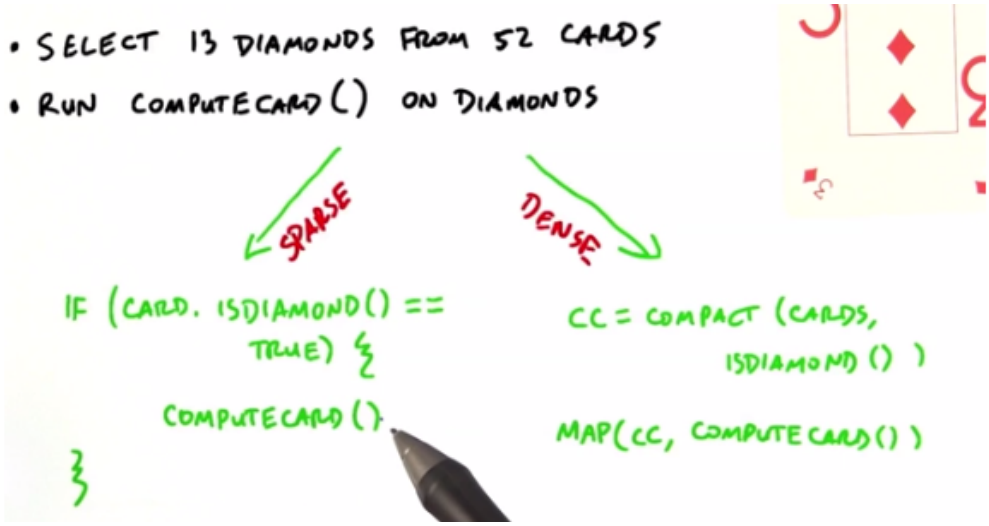
L4-4.2-Scan Recap



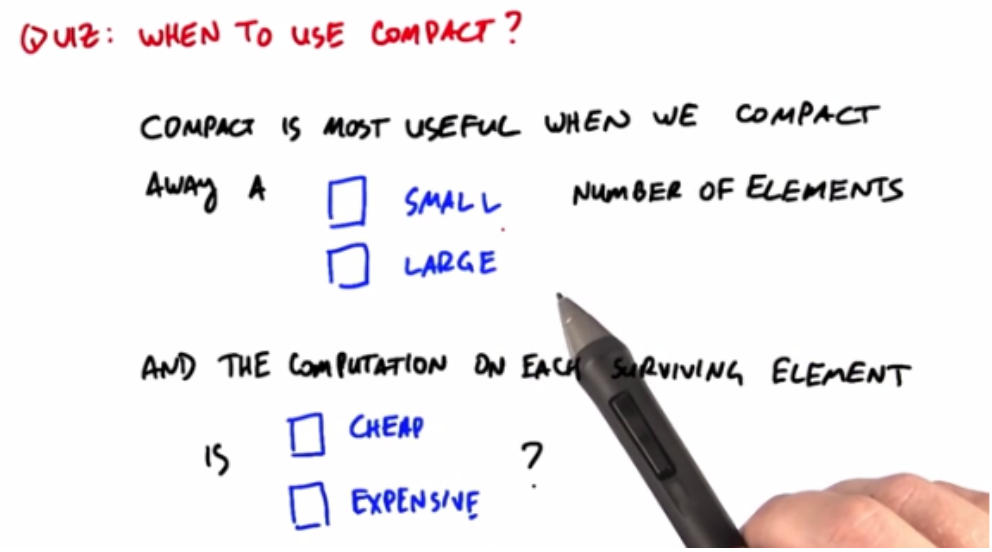
L4-4.3-What is Compact



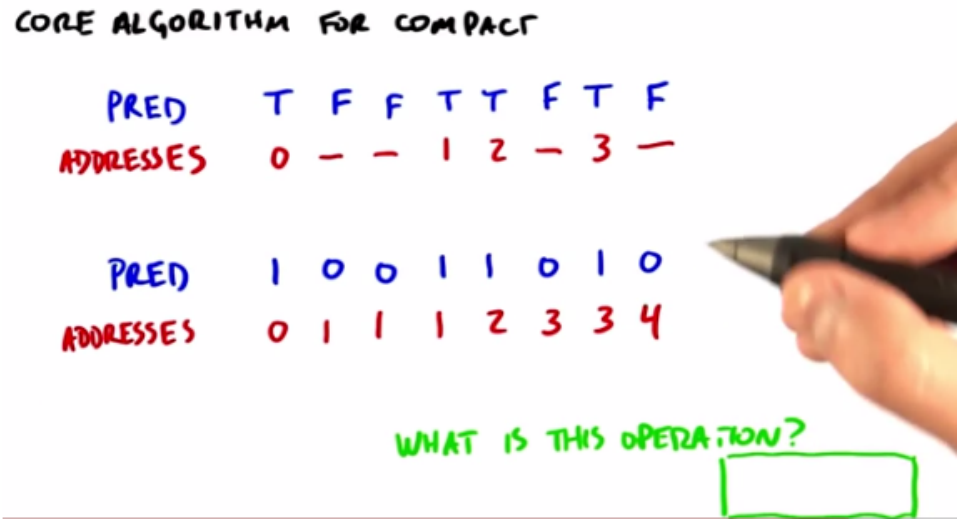




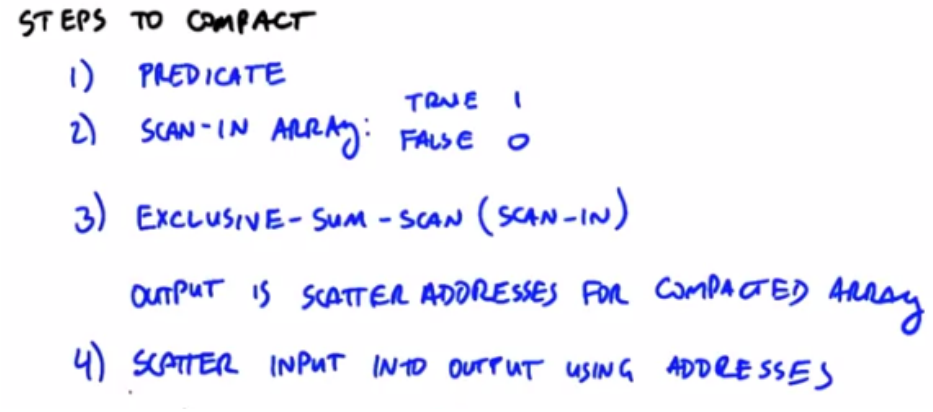
L4-4.4-When To Use Compact

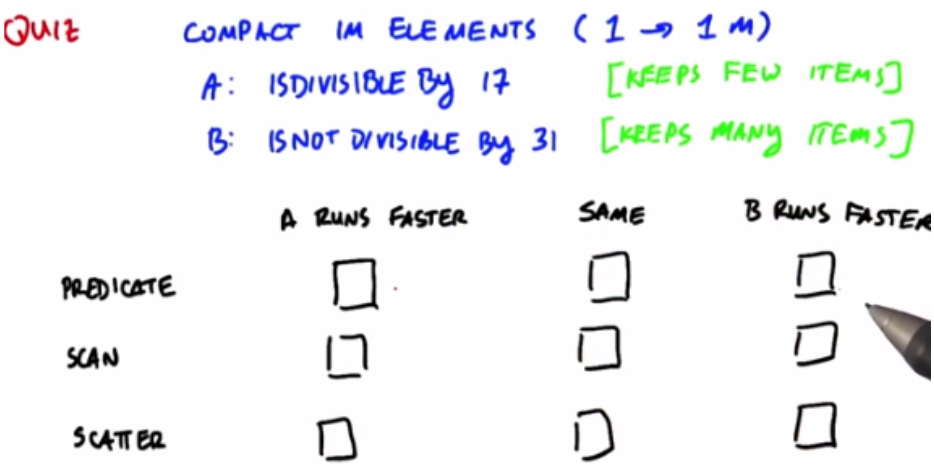


L4-4.5-Core Algorithm to Compact

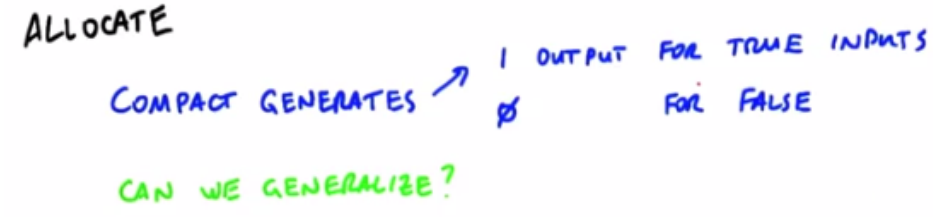


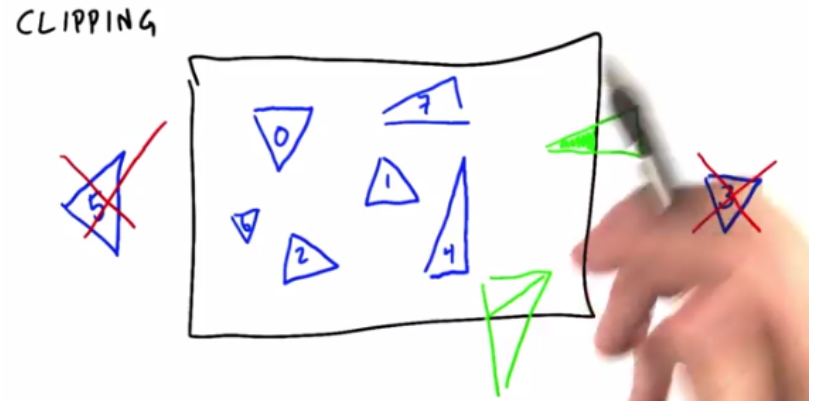
L4-4.6-Steps to Compact

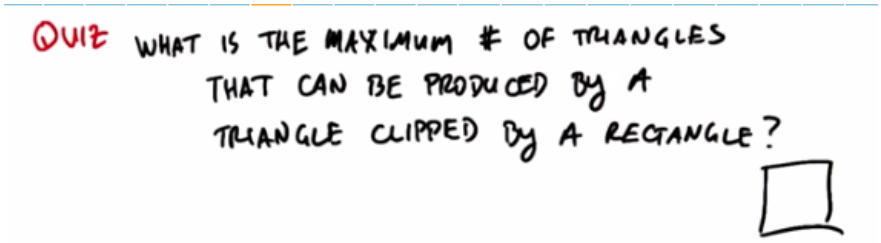




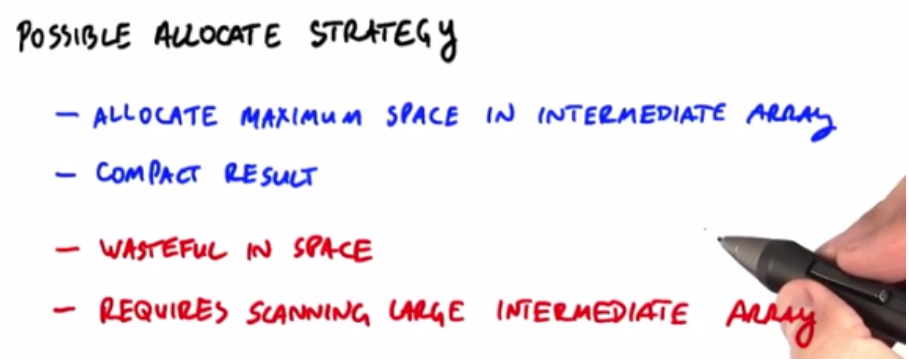
L4-4.7-Allocate

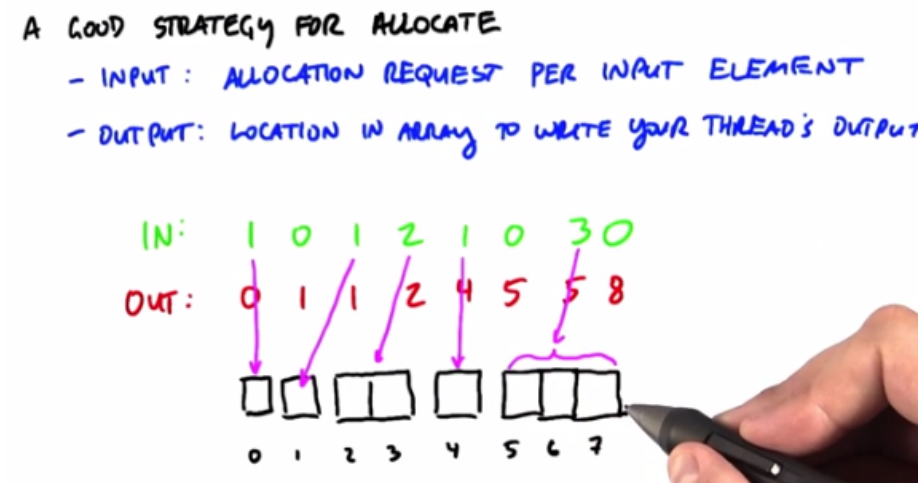


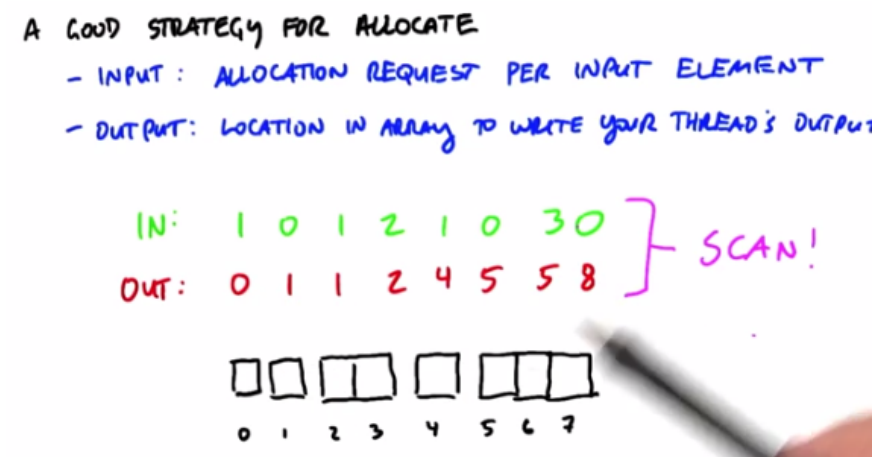




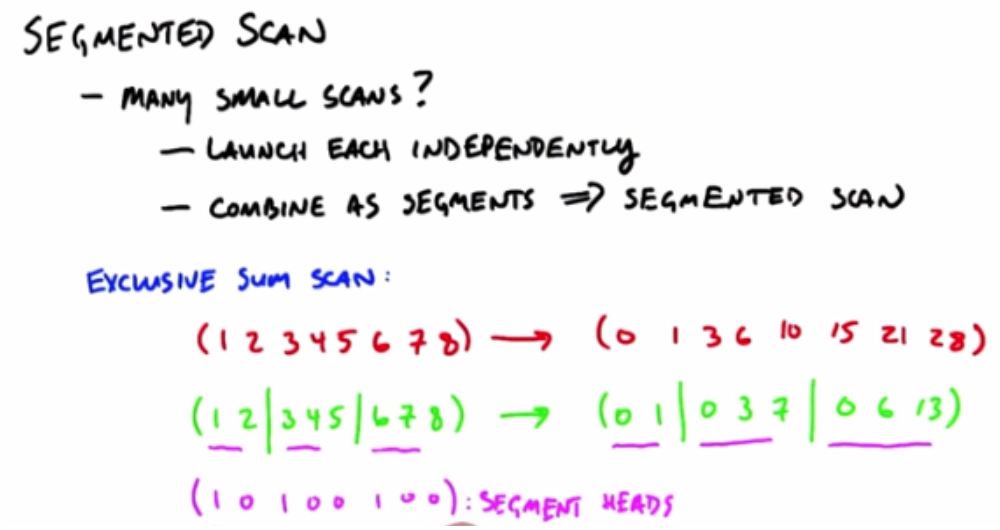
L4-4.8-Possible Allocate Strategy

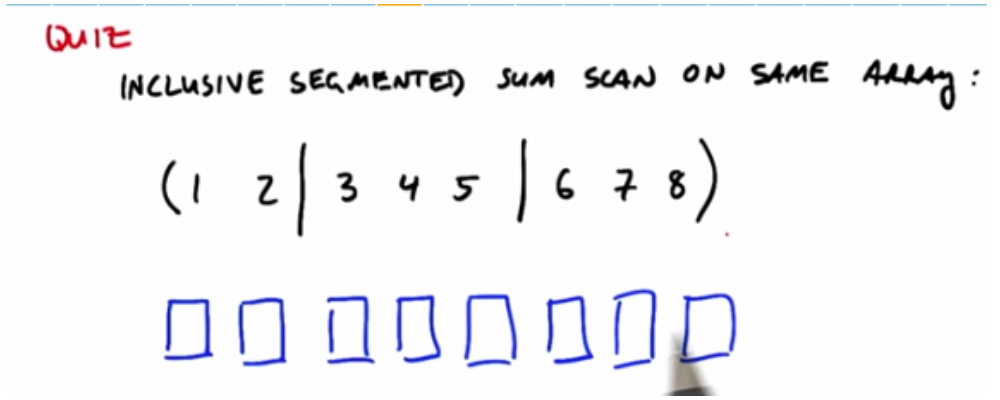




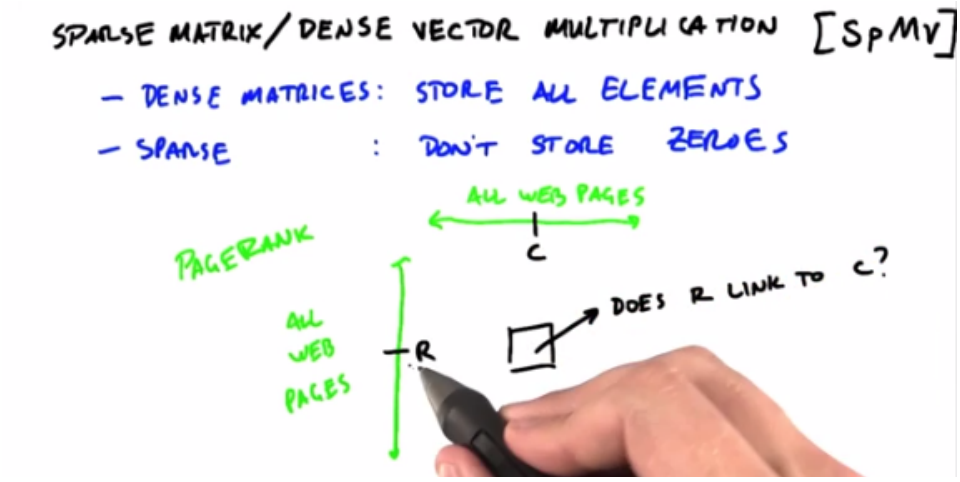


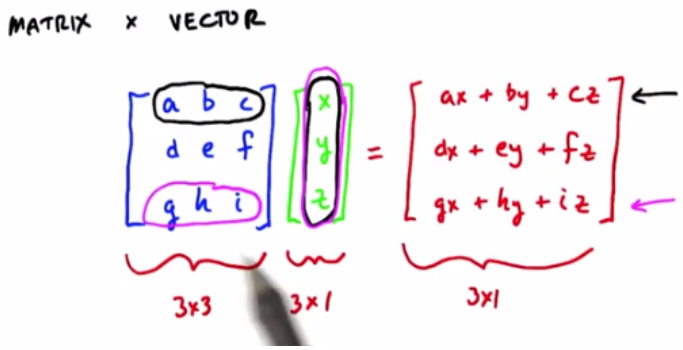
L4-4.9-Segmented Scan

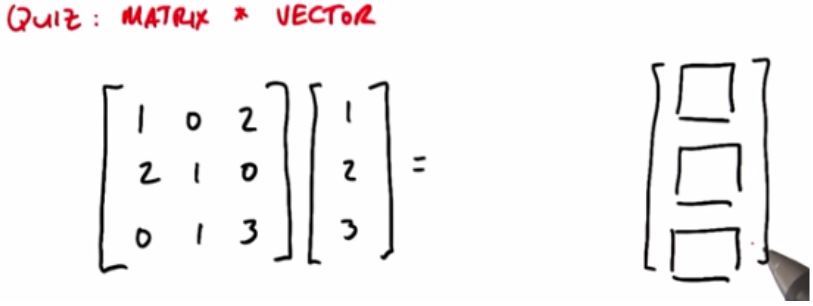




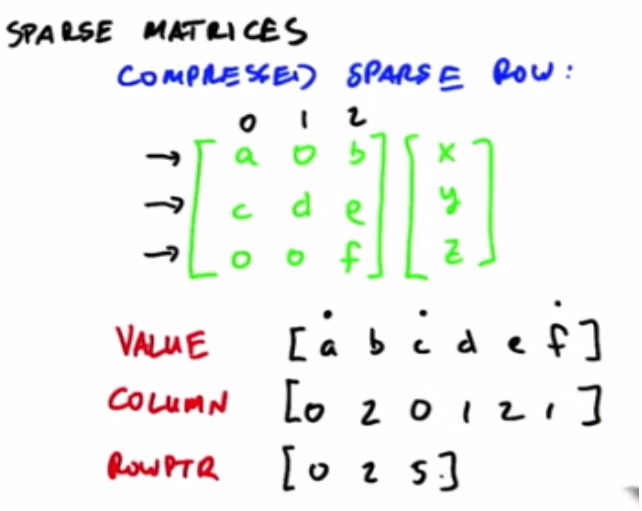
L4-4.10-SpMV



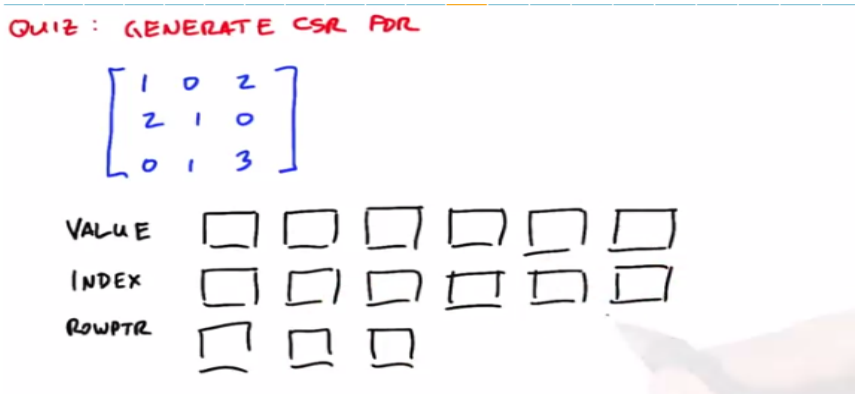




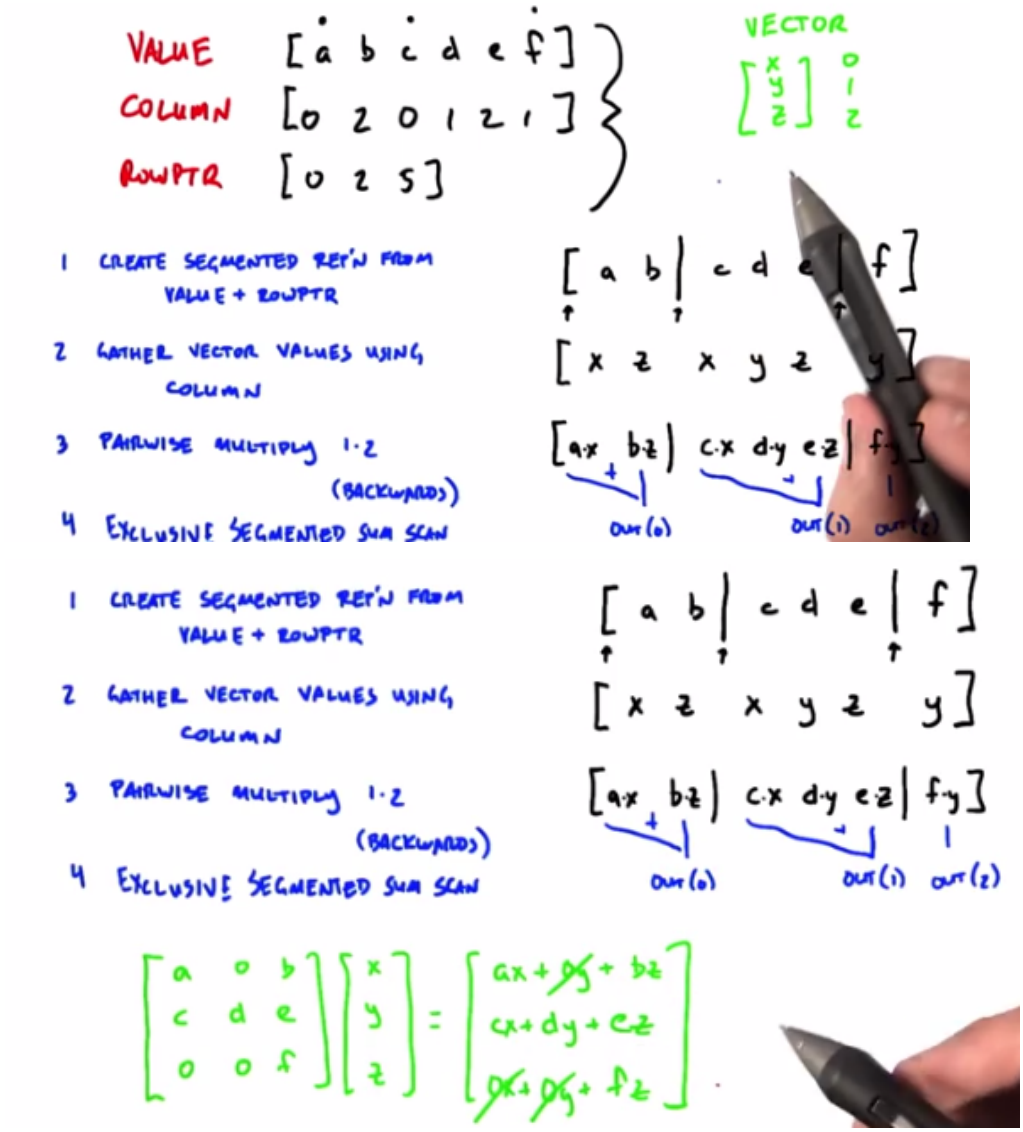
L4-4.11-Sparse Matrices



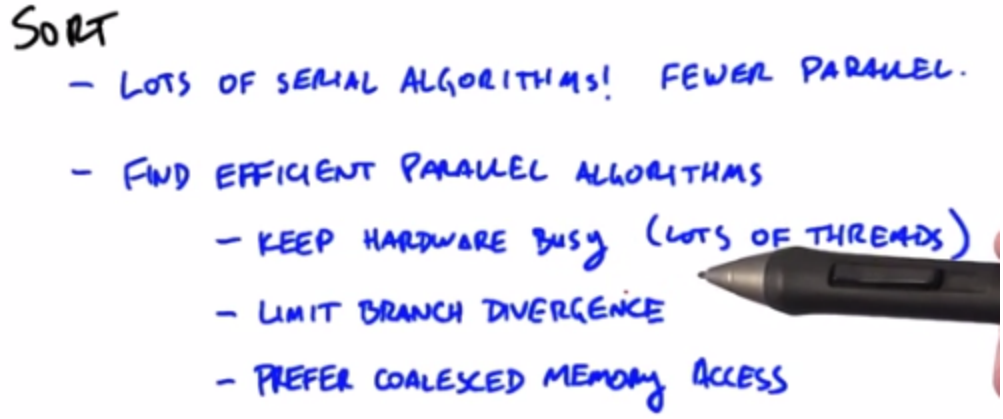
L4-4.12-Generate CSR

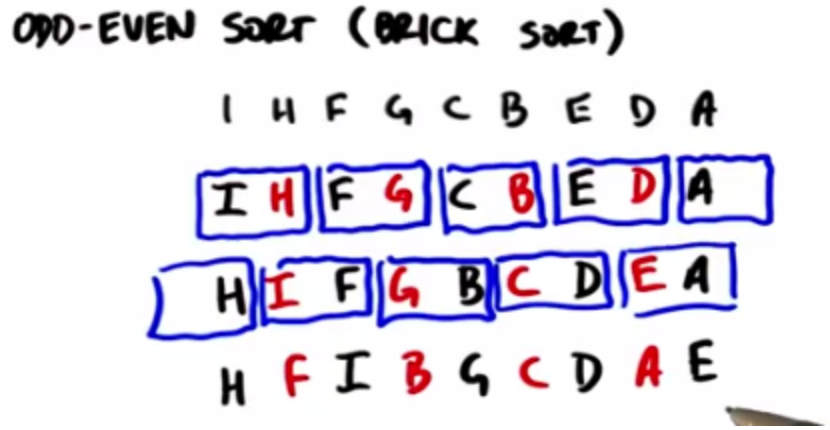


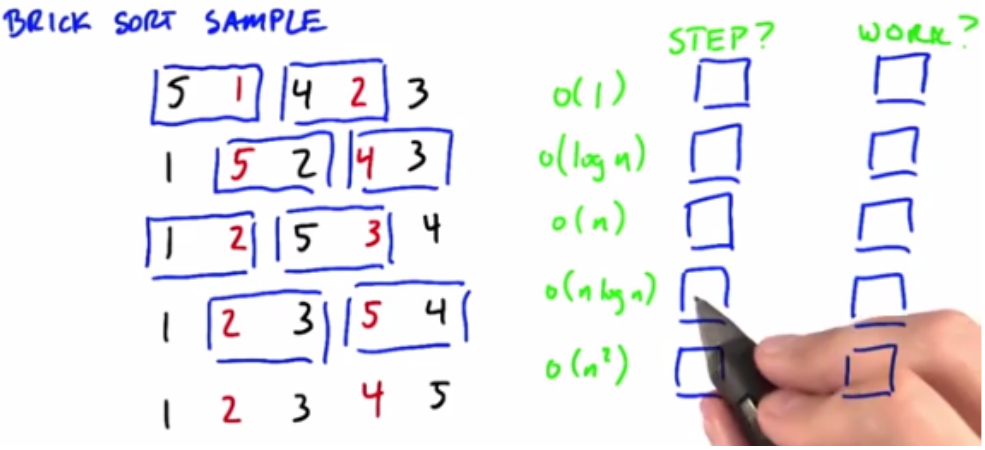
L4-4.13-Actually Doing the Matrix



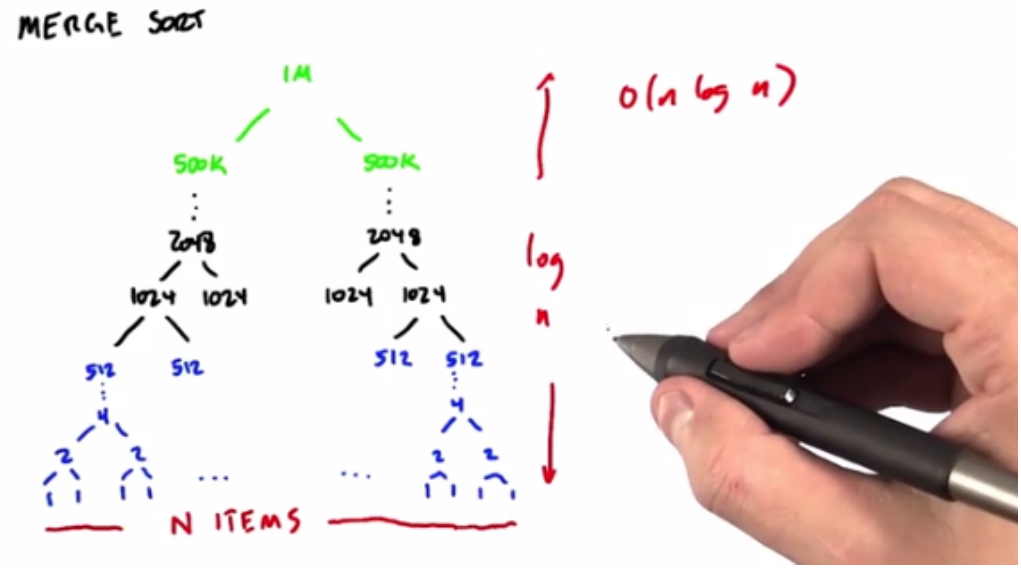
L4-4.14-Sort

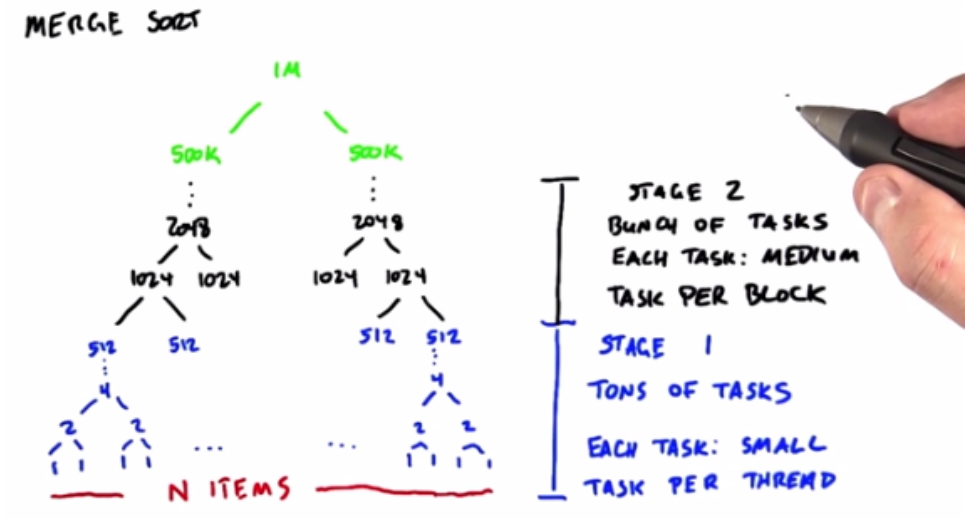


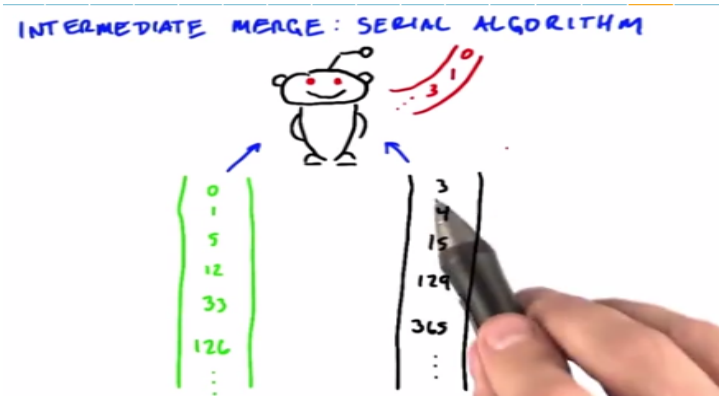




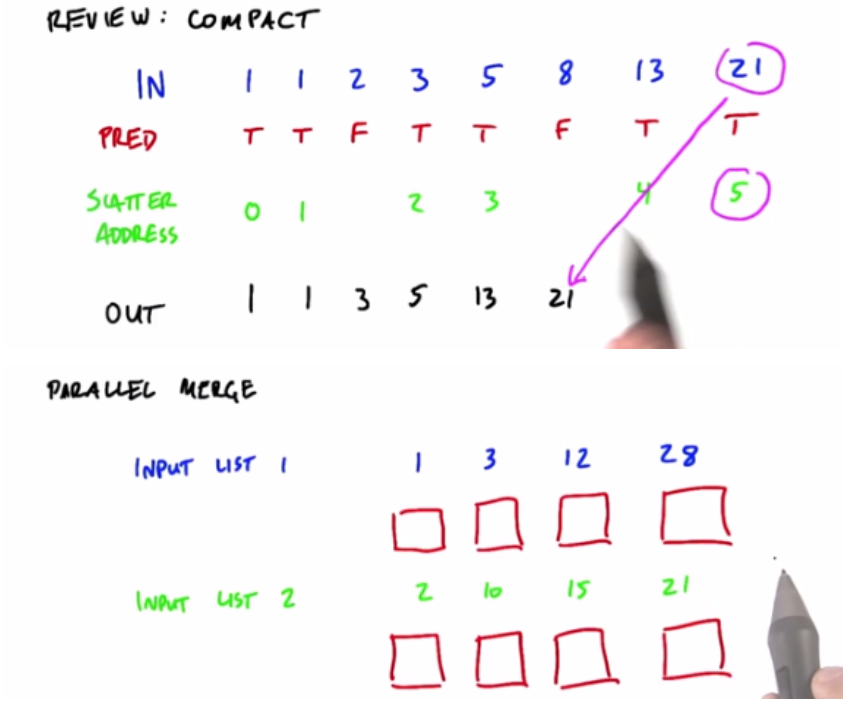
L4-4.15-Merge Sort



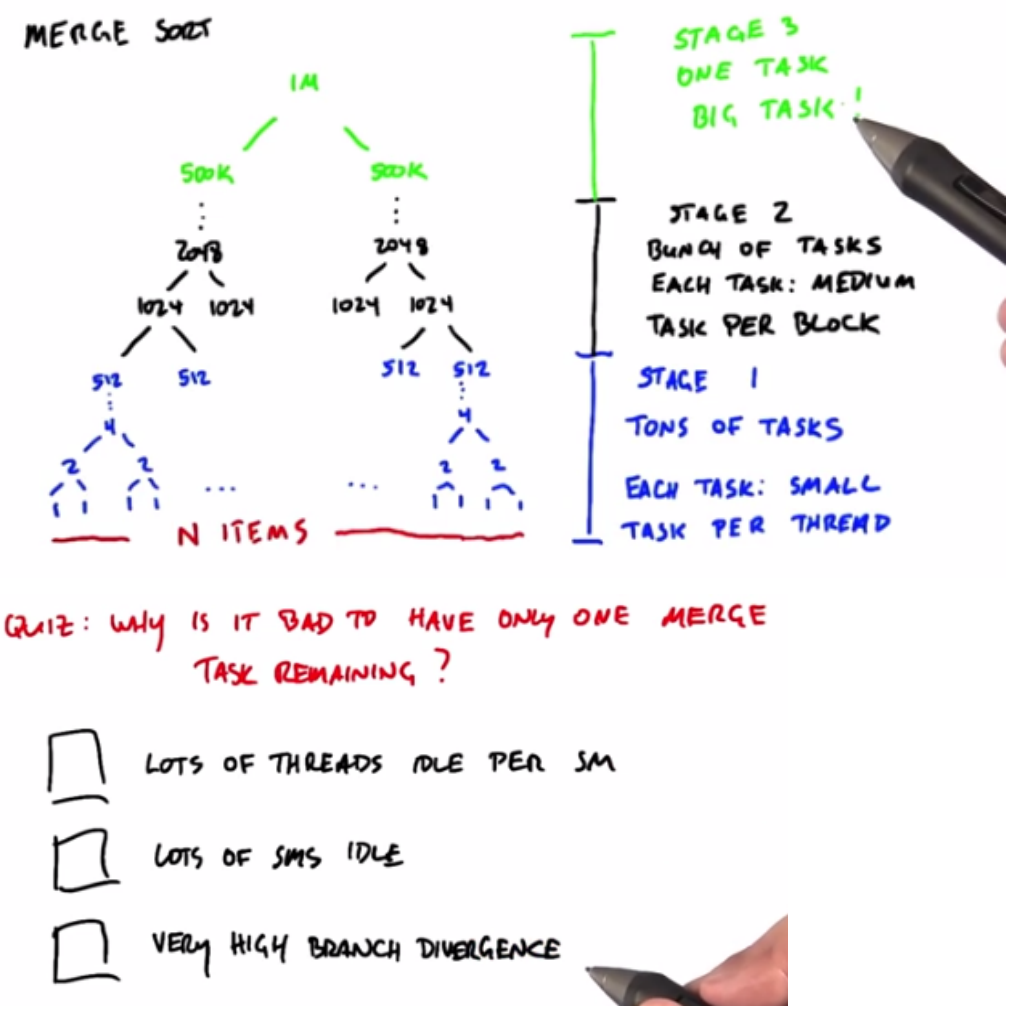




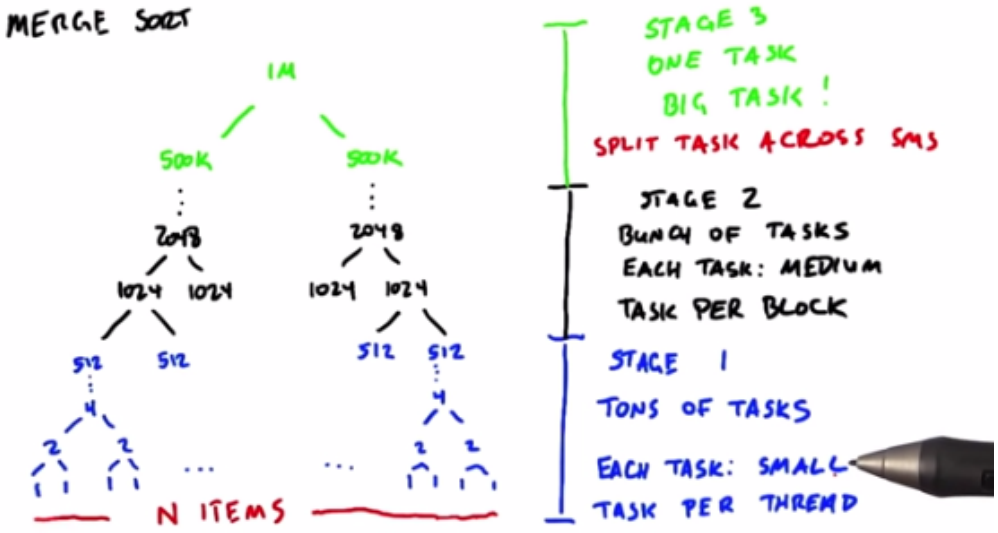
L4-4.16-Parallel Merge

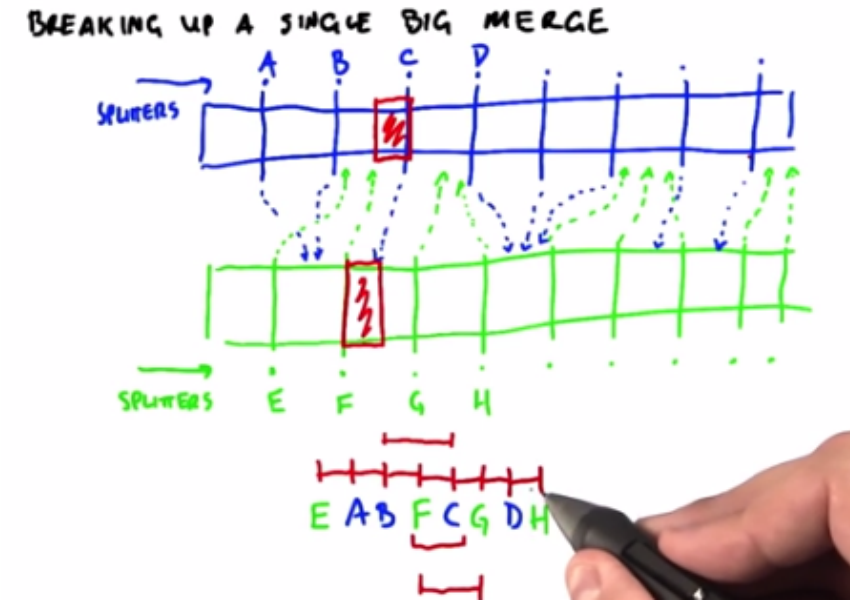


L4-4.17-Bad To Have One big Merge

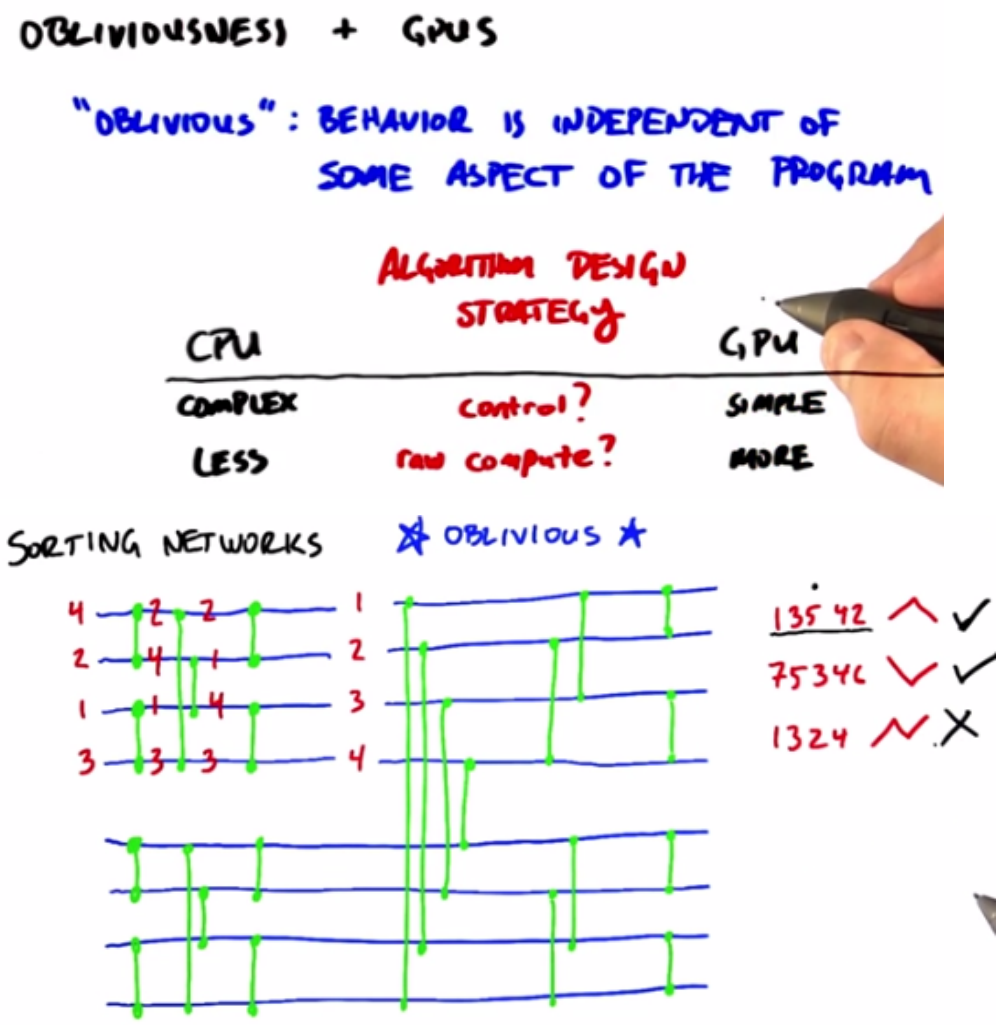


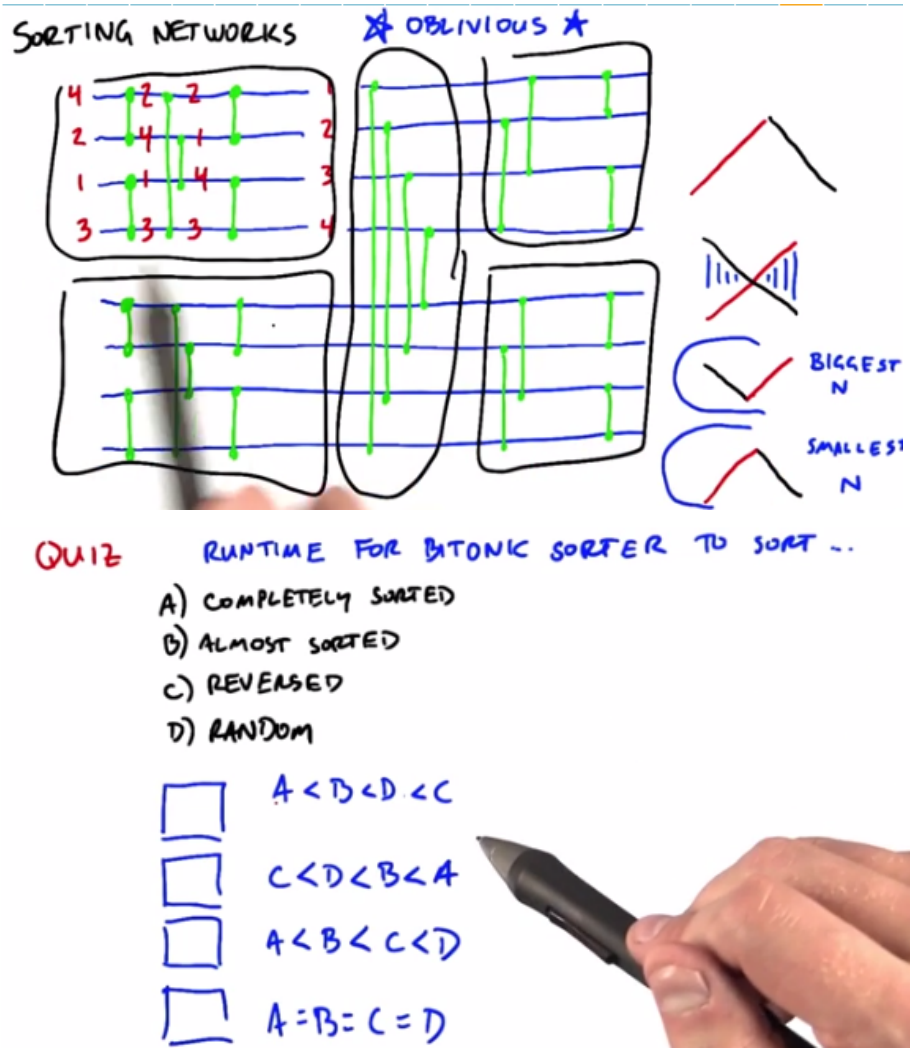
L4-4.18-Split Tasks Across SMs





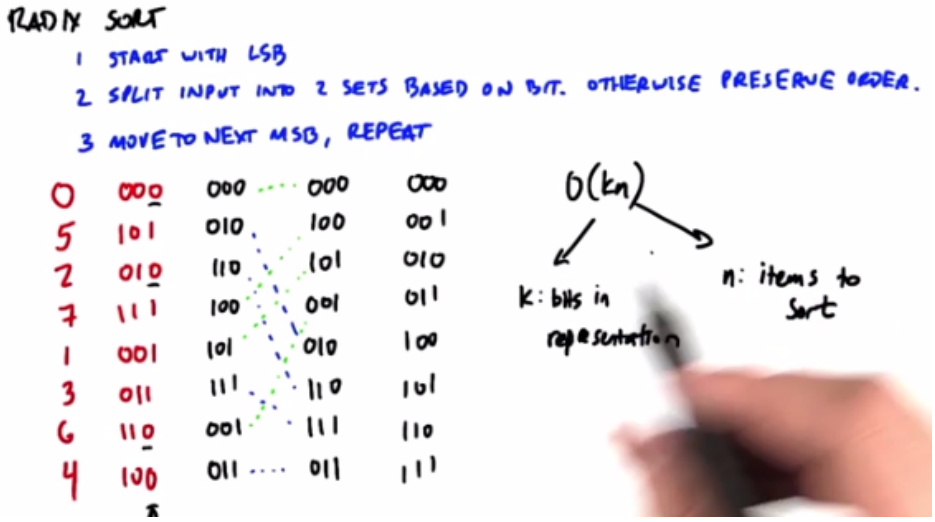
L4-4.19-Sorting Networks Part 1

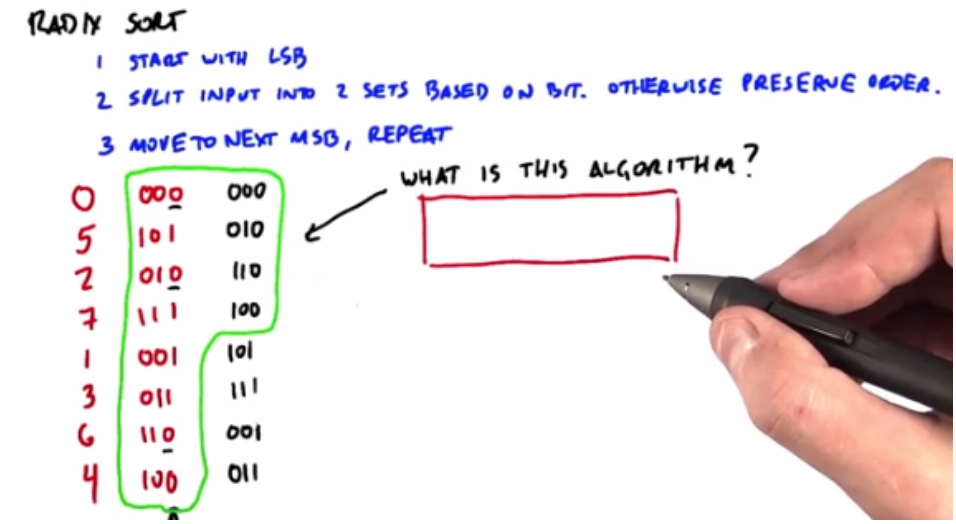




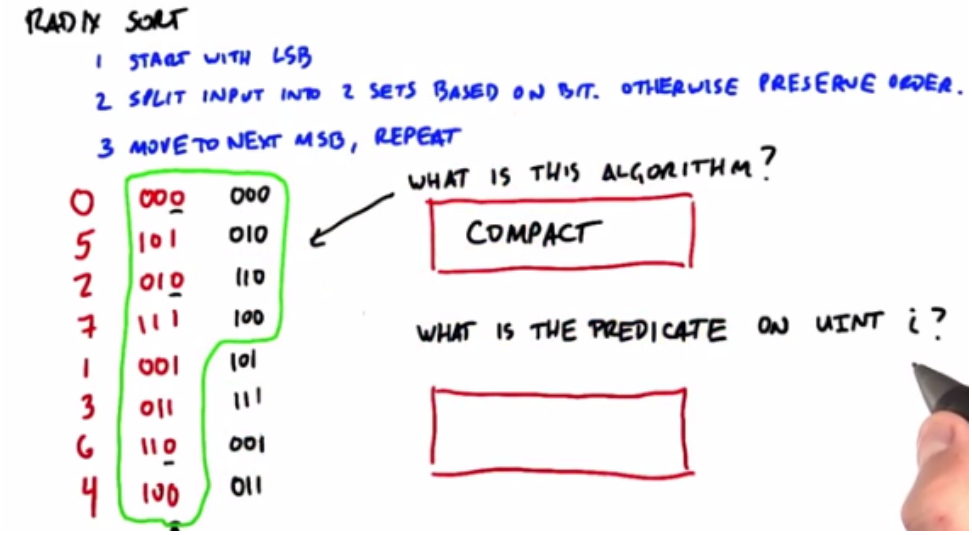
L4-4.20-Sorting Networks Part 2

L4-4.21-Radix Sort Part 1

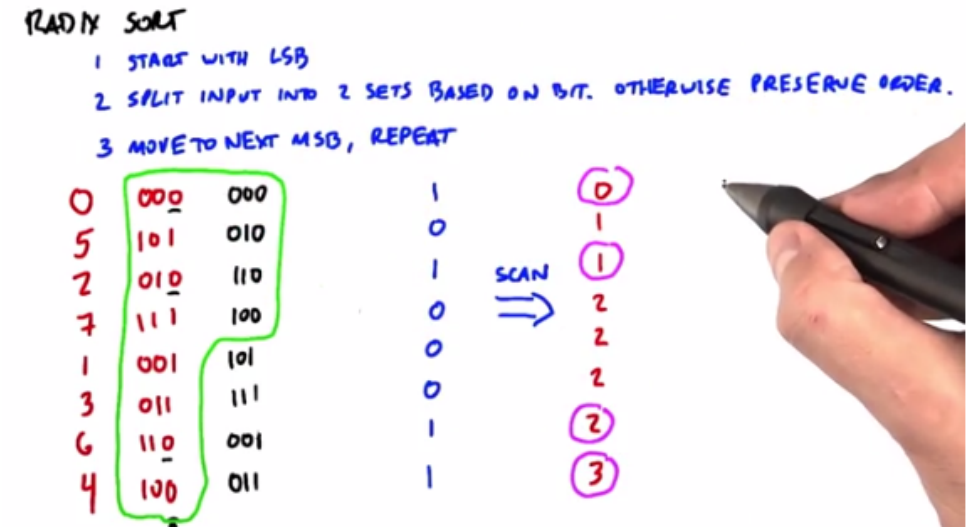




L4-4.22-Radix Sort Part 2 (

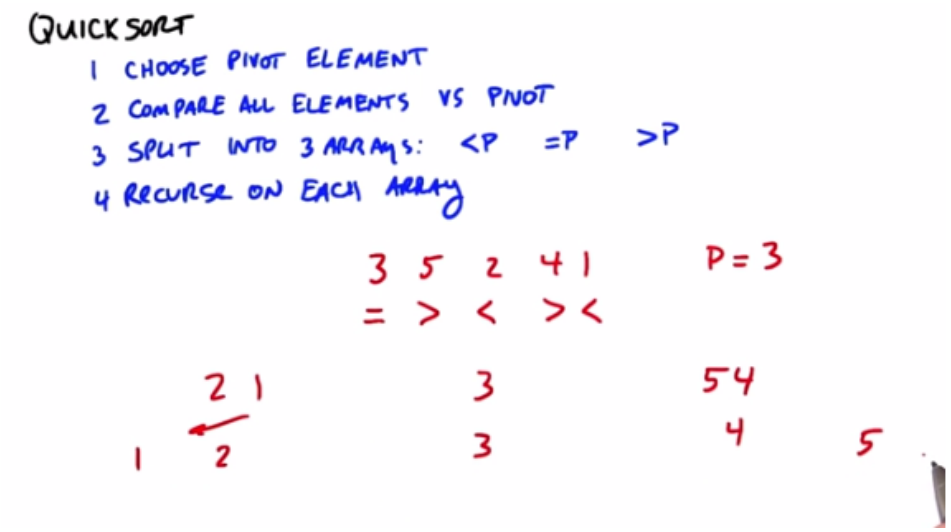


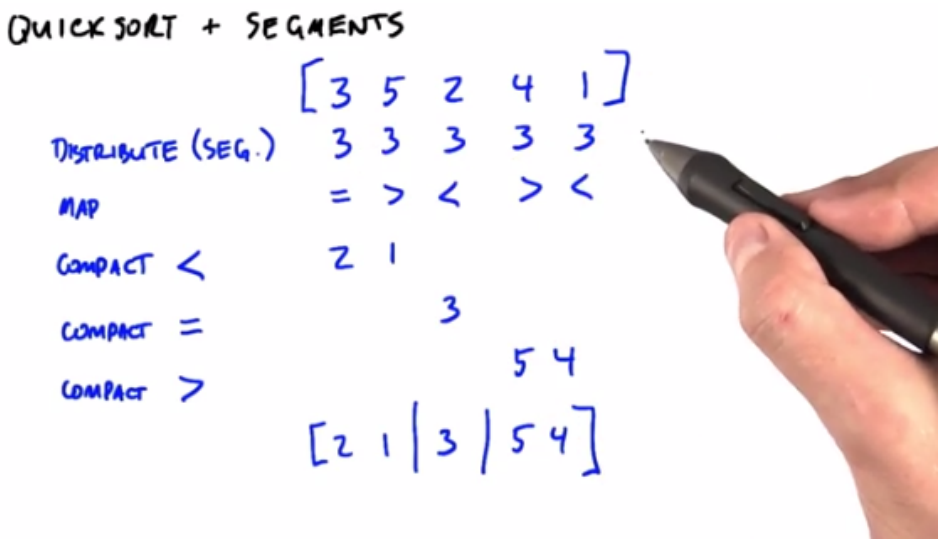
L4-4.23-Radix Sort Part 3



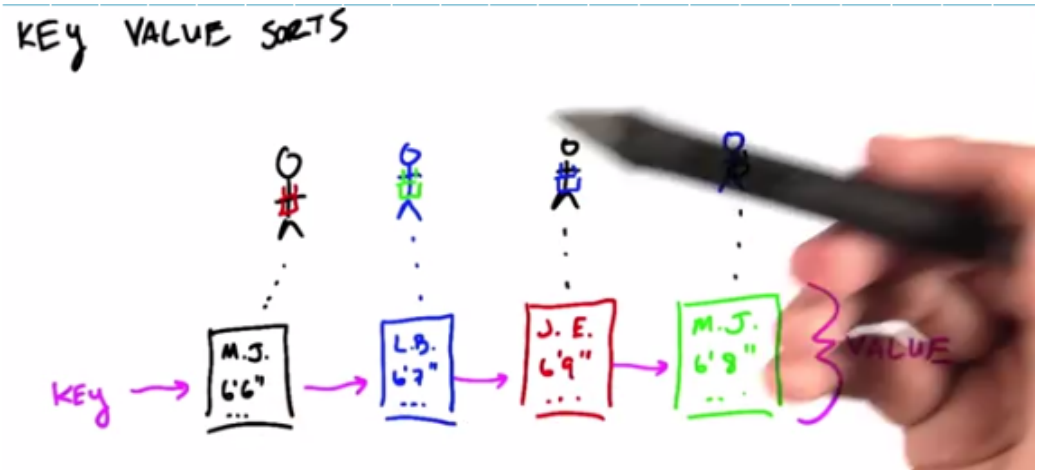
[CS344 Intro to Parallel Programming, Lesson 4]

L4-4.24-Quick Sort





L4-4.25- Key Value Sort



L4-4.26-Summary

L4-4.28-Problem Set #4