



Quick Select Analysis

Learning Objectives

1. Understand the worst and average case runtime of Quick Select



Quick Select Algorithm

Partitions elements about the median

Initial: [11, 6, 44, 41, 33, 57, 2], $k = 3$

Iteration 1: [11, 6, 2, 33, 41, 57, 44], $k = 0$

Iteration 2: [6, 2, 11, 33, 41, 57, 44], $k = 0$

Iteration 3: [6, 2, 11, 33, 41, 57, 44]



Worst Case Analysis



Average Case Analysis

