Homework 5

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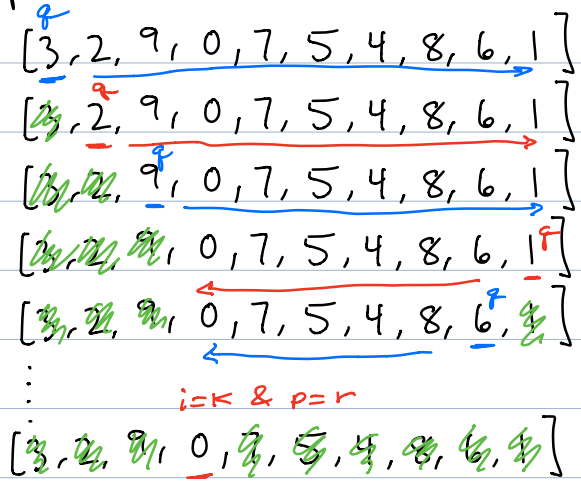
Q1

We want to choose partitions that cause worst-case performance. To do this, we must partition so that the search checks every element



Q2

See problem2.cpp

Q3

See problem3.cpp

Q4

This theoretical algorithm is simply an implementation of counting sort. All elements are placed into the "C" array which would be elements between a and b.