

C-4.18

To implement the stack ADT using two queues, Q1 and Q2, we can simply enqueue elements into Q1 whenever a push call is made. This takes constant running time to complete. For pop calls, we can dequeue all elements of Q1 and enqueue them into Q2 except for the last element which we set aside in a temp variable. We then return the elements to Q1 by dequeuing from Q2 and enqueueing into Q1. The last element that we set aside earlier is then returned as the result of the pop.