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## **Implement a queue with 2 stacks. Your queue should have an enqueue and a dequeue method and it should be "first in first out" (FIFO).**

Optimize for the time cost of  $m$  calls on your queue. These can be any mix of enqueue and dequeue calls.

Assume you already have a stack implementation and it gives  $O(1)$  time push and pop.

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