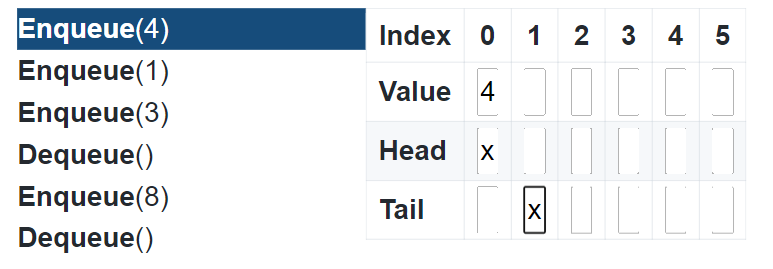
CAB301 Tutorial 3

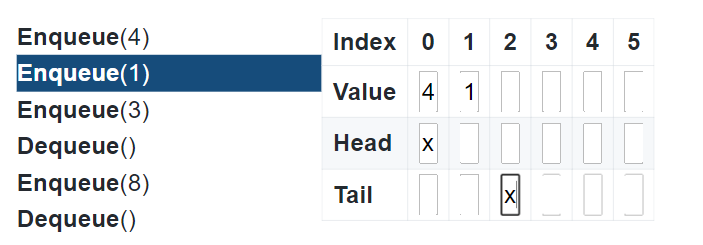
Time: 09:00 Monday, 18/03/2024

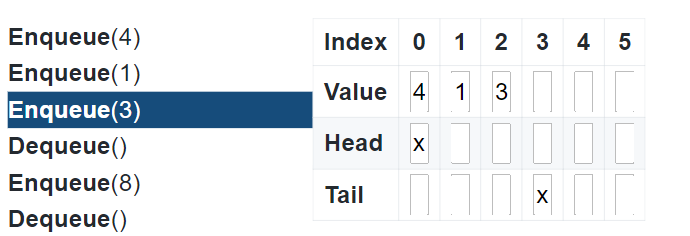
**Question 1**: Queue operations using an array

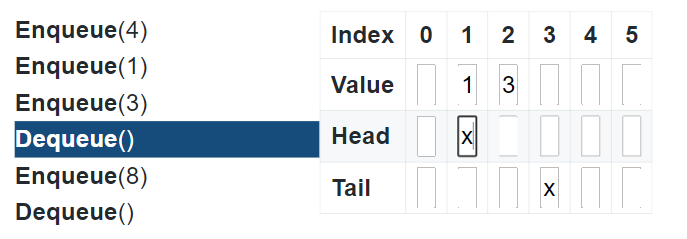
Step 0: Before any operations

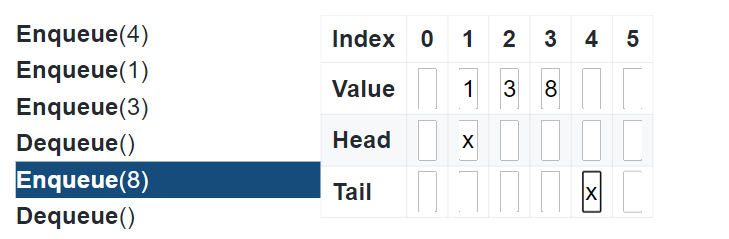


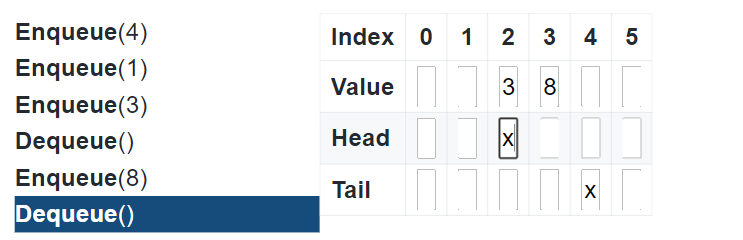




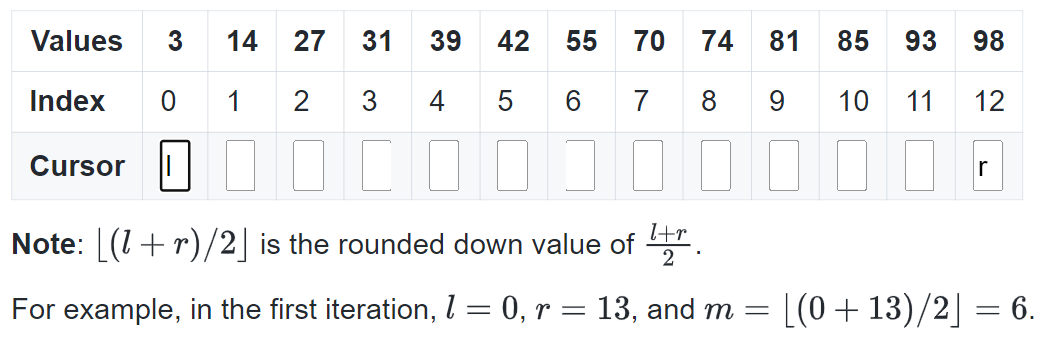








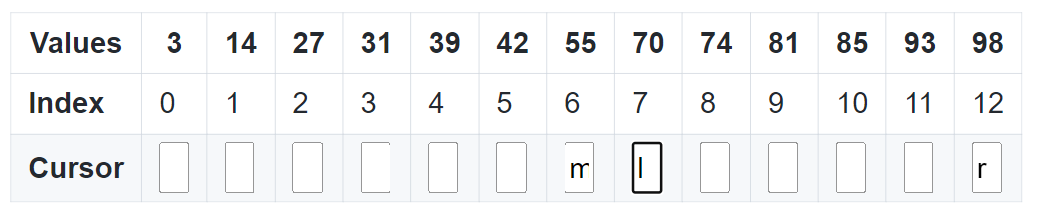
Question 2: Binary Search by Hand



Iteration 1:

. False

. True, so

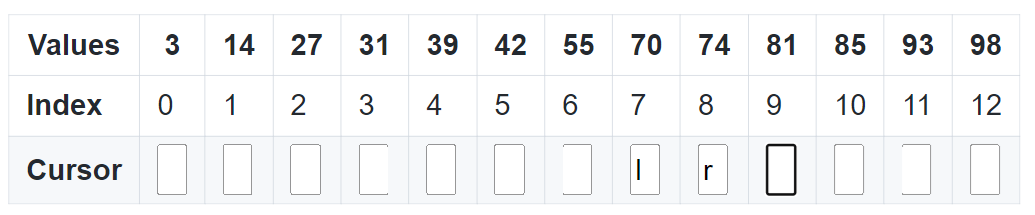


Iteration 2:

. False

. False

Execute else: .



Iteration 3:

. True

Return , and 70 exists in the array at index .

b) For the binary algorithm, the initial input is reduce to (cutting in half every iteration).

**Question 3**: Implementing a Stack