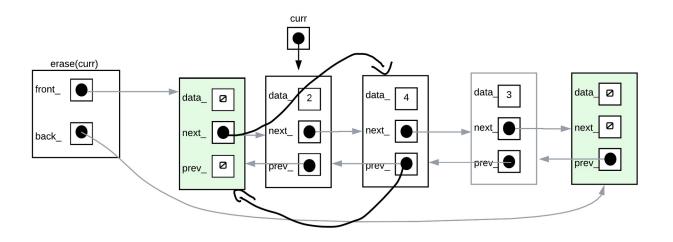
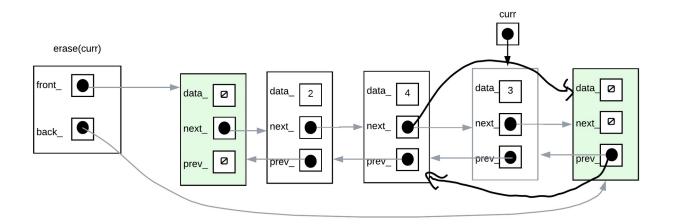
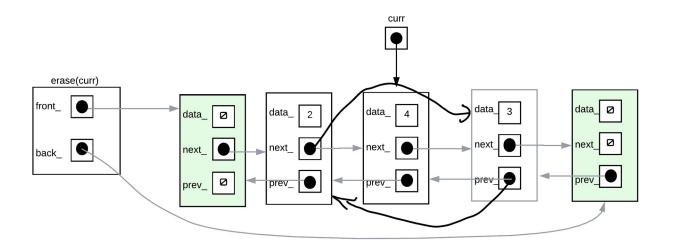
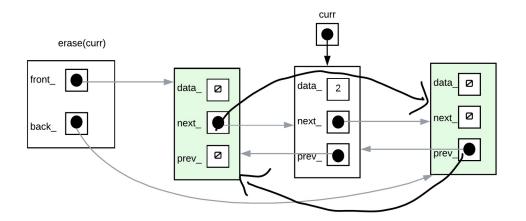


Since the provided value is "None" and no nodes exist other than the sentinel nodes, calling the erase function would raise an error.









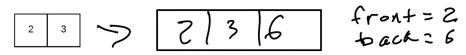
Stack: In the diagrams below list what data members you need to track and what their values are in its initial state and their state after each of the operations are applied to the diagram. If the array needs to be resized, draw the new array with the correct capacity

stack.push(6)

Queues: In the diagrams below list what data members you need to track and what their values are in its initial state and their state after each of the operations are applied to the diagram. If the array needs to be resized, draw the new array with the correct capacity

queue.enqueue(6)

2 is at front of queue, 3 is at back

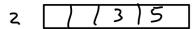


queue.dequeue()
queue.dequeue()
queue.enqueue(6)

initially 2 is at front of queue, 5 is at back

2	4	3	5

1 4/3/5



3 3 5 6

Deques: In the diagrams below list what data members you need to track and what their values are in its initial state and their state after each of the operations are applied to the diagram. If the array needs to be resized, draw the new array with the correct capacity

deque.push_front(6)	
2 is at front of Deque, 3 is at back  2 3	6 2 3
deque.push_back(6)  2 is at front of Deque, 3 is at back  2 3	Z1316
deque.pop_back() deque.push_front(6)  nitially 2 is at front of deque, 5 is at back  2 4 3 5	1. 21437 2.6243
deque.pop_front() deque.push_back(6) deque.pop_front() deque.push_back(7) initially 2 is at front of deque, 5 is at back	1. [4[3]5 2. [4]3[5]6] 3. ]3[5]6] 4 [3]5[6]7[

overflow(grid,the\_queue) - apply the overflow function to the gride below and show all the grids the function would add to the queue. Number the grid in the order they are added to the queue. Also state the return value. Note that some grids may remain empty

	1	-3	-3	0		1)	O	7	-1	~(	
	0	3	2	0		/	-3	6	-5	-3	Ī
)	0	-3	0	0			б	~1	D	-1	,
)	0	1	0	0			6	0	-1	6	
					1						
					]						
				I	1					I	