

















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)

3 is at top of stack



stack.pop() stack.pop() stack.push(6)

initially 5 is at top of stack

2 4 3 5

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
-	ACTION AND DESIGNATION ASSESSMENT	New York Holes	

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

		2	3		
		1			
	don	uo pue	h_back(6)	
2 is		70.3	No.	s at back	
		2	3		
	-	and the second			
			p_back(h_front(
ally 2				5 is at b	ack
Γ	2	4	3	5	
	(IIII)			1700	

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 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

Diagnos .			1000
	-3	-3	0
0	3	2	0
0	-3	0	0
0	1	0	0
	0	0 3	0 3 2

	1	-3	-3	0		0	0	0	
	0	3	2	0		3	1	0	
100	0	-3	0	0		0	-1	-2	
-	0	1	0	0		0	0	1	
				-	to the contract of the contrac				_

Overflowing (0,0), (0,2), (0,3), (1,2)

overtions:	(0,4)		CI	0)	CI,	3)
	, , ,	,	- 1)	-//	- 1	-/

0

0

0	0	0	0	0
4	٦	0	0	1
٥	-1	-2	1	0
0	0	1	0	0

0	0	0	0	0
1	0	0	0	0
1	0	-1		1
0	0	1	0	0

overflows: (1,0) (2,1), (1,4)

SNOW : IMOHER









