

LAB TASK

Empirical Time and Space Complexity



SEPTEMBER 28, 2022

GROUP: BLACK Irfan Ali Narejo

Singly Linked List					
No.	Name	Time Complexity (milliseconds)	Space complexity (Kilo Bytes)	Hardware Info (Processor, GPU, etc)	
1.	addFirst	110	8519	Pro: 4	
2	AddLast	109	8590	Pro: 4	
3	Remove	109	8519	Pro: 4	
4	Delete	62	8519	Pro: 4	
5	Sreach	125	8519	Pro: 4	

Doubly Linked List					
No.	Name	Time Complexity (milliseconds)	Space complexity (Kilo Bytes)	Hardware Info (Processor, GPU, etc)	
1.	addfirst	78	9300	Pro: 4	
2	addlast	62	9300	Pro: 4	
3	Deletefirst	78	9300	Pro: 4	
4	Deletelast	63	9300	Pro: 4	
5	insert	62	9300	Pro: 4	

	Queue				
No.	Name	Time Complexity (milliseconds)	Space complexity (Kilo Bytes)	Hardware Info (Processor, GPU, etc)	
1.	inqueue	500	704	Pro:4	
2	dequeue	400	704	Pro:4	
3	PrintAll	300	704	Pro:4	

	Stack				
No.	Name	Time Complexity (milliseconds)	Space complexity (Kilo Bytes)	Hardware Info (Processor, GPU, etc)	
1.	push	200	705	Pro:4	
2	рор	200	705	Pro:4	
3	Printall	300	705	Pro:4	