Josh Clemens 3.26-23

Homework Stack List and Queue and Deque List

PLEASE SHOW THE UPDATED LIST AFTER EACH PROBLEM.

- 1. Update the Stack List with the given commands.
 - a. Add the following Strings to the Stack using an arrayList: "John", "Juan", "Jon", "Jean", "Jonas", "Johnny", "Joao", "Jani", "Giovanni", "Hans" in that order.
 - b. Push "Ivan".
 - c. Push "Jhon".
 - d. Peek the arrayList.
 - e. Pop the arrayList.
- 2. Update the Queue List with the given commands.
 - a. Add the following Strings to the Single-LinkedList: "John", "Juan", "Jon", "Jean", "Jonas", "Johnny", "Joao", "Jani", "Giovanni", "Hans" in that order.
 - b. Add "Ivan".
 - c. Offer "Jhon".
 - d. Peek the Single-Linked List.
 - e. Poll the Single-LinkedList.
- 3. Update the Queue List with the given commands.
 - a. Add the following Strings to the arrayList: "John", "Juan", "Jon", "Jean", "Jonas", "Johnny", "Joao", "Jani", "Giovanni", "Hans" in that order.
 - b. Add "Ivan".
 - c. Offer "Jhon".
 - d. Peek the arrayList.
 - e. Poll the arrayList.
- 4. Update the Deque List with the given commands.
 - a. Add the following Strings to the Double-LinkedList: "John", "Juan", "Jon", "Jean", "Jonas", "Johnny", "Joao", "Jani", "Giovanni", "Hans" in that order.
 - b. addFirst "Ivan".
 - c. addLast "Jhon".
 - d. pollFirst the Double -LinkedList.
 - e. removeLast the Double -LinkedList.

Stack using arraylist 6 Janus Giovan Hans Johny Lean Jani Push() Ivan 14 TOP 2 Push Thon 6 Javi Grown Son Scan Jon Jean Sonas Sohmi Joan Hans Ivan Peck() E POP() 6 John Juan Jon Jean Sonas John Joan Jani Giovann Hans Ivan

2.A Queue Using single-linked List	
Head tail	
John Joan Jones John Joan Jani Giwani Hansk	
B. Add Ivan	
Head Tail	
John Joan Jone John Joan Jani Given Hans Ivan	
C. Offer Thon. Return True if Successfy	
Head Tai	
John Joan Jons John Joan Jani Giwani Hans Ivan Thon	
D. Peck() Return evenent at Front of Queve Inul	
John	
E. Poll() Remove element at First of Queve. Return null if empty.	
Head Tail	
guen Bon Bean Jones Bohrm Boad Jani Giwanni Hans Ivan Thon	
) null	

3A. Qu	lue c	sing o	rrayl	ist					
0	(2	3	4	\mathcal{S}	6	フ	8	9
John	Tean	Jan	Jean	Jonas	Johny	Foro	Jani	Gjovena	Hans
Front								P	1 eov
B. Ald ?	Ivon								_
John	Jan 2		3 4 Pan Jan		6 Jos	7 Javi 19		9 10 ans Iva	
Front C. offer:	Jhon							174	
O John Front	l Z Dian Je	2 3 20 Jean	4 Janus	S 6 Solway Far	7 o Jani	8 Gjovenn t	9 10 lans Iva	an Jhan] r
D. Peek Joh	\neg								
E. Po	() ()	Return	s Zoh	~					
OJohn	Jan :	2 3 Jan Je		 - - .	S 7 Toub Javi	8 Gjovenn	 	O 11 Evan The	on on

4.A. Deque using Double-Linked List
Tohn Jone Jean Jones John Jani Giwani Hans
Null
B. add first Ivan
Head
Ivan John Buan Jone Sean Jones John Boar Juni Giovanni Hans
[Unil]
C. add Last Thon
Head
Ivan John Juan & sone bean Jones John Jones Jani Giovanni Hans Jhon
Null
D. PollFirst () Remar first and Return Value
Ivan
E. Remove Last()
Head
John Jon Jean Jones John Boar Juni Rivani Hansk
null