Soal Praktikum Practicum Case	
COMP6362 Data Structures	BINUS MALANG Institute of
Teknik Informatika Computer Science	CS-COMP6362-Var02.1
Periode Berlaku Mulai Semester Genap 2019/2020 Valid on Even Semester Year 2019/2020	Revisi 00 Revision 00

Learning Outcomes

- Demonstrate how to create any learned data structure
- Analyze the usage of data structure in application

Topic

• Session 03 - Queue

Sub Topics

- Pointer of Struct
- Malloc
- Free
- Operator
- Push Tail
- Pop Head

Soal

Case

Mr. Chow is a chineese food restaurant owner. He needs an application to record the customer and the order that they make. Here are the descriptions of the application :

- The application has a customer list view and which customers must be served first.
- Chineese Food Restaurant application consist 4 menut, which are:
 - 1. Order List
 - 2. Add Order
 - 3. Take Order
 - 4. Exit
- If user chooses **menu 1. Order List**, then:
 - The application will show the list of table number, customer's name, food, and quantity in the table.
- If user chooses **menu 2**, **Add Order**, then:
 - The application will ask the user to input table number. Validate that table number must be between 1 and 20.
 - The application will ask the user to input customer's name.
 - The application will ask the user to input Food. Validate that food character must be between 5 and 20.

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- The application will ask the user to input Quantity. Validate that quantity must be between 1 and 1000 and show the message "--- Add New Order Success ---".
- If user chooses **menu 3. Take Order**, then:
 - If there is any data in the application, the application will delete the first data in the list and show the message "Order Has Been Delivered to Table.".
 - If there is no data in the application, then application will show the message "There Are No Order Available.".
- If user chooses **menu 4. Exit**, then:
 - Delete all data.
 - Program ends.

Please run the EXE file to see the sample program.

Print Screen of Main Menu

Print Screen of Menu 1. Order List with any data

Order Chineese Food						
No.	Table Number	Customers Name	Food	Quantity		
1. 2.	3 7	Iwan	Special Fried Rice Special Fried Noodle	2		
3.	2	Linda	Capcay	2		
5.	9	Linda Mei	Fuyung Hai Siobak	2		
			+	+	+	

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Print Screen of Menu 1. Order List after Menu 3. Take Order running and delete the first data in the list.

	Order Chineese Food					
No.	Table Number	Customers Name	Food	Quantity		
1. 2. 3. 4.	7 2 2 9	Linda Linda Mei	Special Fried Noodle Capcay Fuyung Hai Siobak	1 2 1 2	 	

Print Screen of Menu 1. Order List with no data

Order Chineese Food						
No. Table Number Customers Name	Food	+ Quantity				
	+	+				

Print Screen of Menu 2. Add Order

```
Input Table Number [1..20]: 3
Input Customers Name: Iwan
Input Food [5..20]: Special Fried Rice
Input Quantity [1..1000]: 2
--- Add New Order Success ---
```

Print Screen of Menu 3. Take Order

Order Has Been Delivered to Table.

Print Screen of Menu 3. Take Order and if no other order

There Are No Order Available.

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