- Write the algorithm of queue mechanism using
 - Single linked list
 - Array alternative 1
 - Array alternative 2
 - Array alternative 3
- Use the same info type as before
- Each member is to write 1 mechanism

JAWABAN:

- Single linked list
 - \triangleright Simpan 2 reference: front $\rightarrow ... \rightarrow ... \rightarrow$ back
 - \triangleright Enqueue(Benda x):
 - ✓ Buat sebuah node baru N yang datanya x
 - ✓ If queue sebelumnya empty, maka front = back = N

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- ✓ Else tambahkan N di akhir (dan update back)
- > Dequeue():
 - ✓ Hapus elemen pertama: front = front.next
- Array alternative 1

Algoritma:

Add(P,4)
Add(P,3)
Add(P,6)
Del(P)
Del(P)
Add(P,2)
Del(P)
Del(P)

1	2	3	4	5
4	3	6		

Head	1	Tail	3

Is Empty	True

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1	2	3	4	5
6				

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Head 1	Tail	1
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Is Empty	True
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1	2	3	4	5
2	6			

Head 1	Tail	2
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Is Empty	True
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1	2	3	4	5

		_		
Head	0		Tail	0

Is Empty	False
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• Array alternative 2

Algoritma:

Add(P,5)

Add(P,2)

Add(P,3)

Del(P)

Del(P)

Add(P,6)

Del(P)

Add(P,9)

Add(P,7)

Del(P)

Del(P)

Del(P)

Is Empty

1	2	3	4	5
5	2	3		
Head	1	Tai	1 3	
			•	

1	2	3	4	5
3				

Head	1	Tail	1

True

Is Empty True

1	2	3	4	5
6	3			

		_		
Head	1		Tail	2

Is Empty True

1	2	3	4	5
3				

	Head	1		Tail	1
--	------	---	--	------	---

Is Empty True	e
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1	2	3	4	5
7	9	3		

Tread T Tall 3	Head	1	Γ	Tail	3
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In Emerator	Т
Is Empty	True

1	2	3	4	5

Head 0	Tail	0
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Is Empty	False
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• Array alternative 3

Algoritma:

Add(P,1)

Add(P,5)

Add(P,2)

Del(P)

Del(P)

Add(P,7)

Del(P)

Add(P,4)

Add(P,3)

Add(P,9)

Del(P)

Del(P)

Del(P)

Del(P)

1	2	3	4	5
1	5	2.		

		_		
Head	1		Tail	3

Is Empty	True

1	2	3	4	5
2				

Head	1	Tail	1

Is Empty	True

1	2	3	4	5
7	2			

Head Is Emp	1 Tr	Tai rue	1 2	
1	2	3	4	5
2				
Head Is Emp	1 Tr	Tai rue	1 1	
1	2	3	4	5
9	3	4	2	
Head Is Emp	1]	Tai rue	1 4	
1	2	3	4	5
Head	0	Tai	1 0	

False

Is Empty