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Mata Kuliah : Algoritma dan Struktur Data

SOAL

1. Write the algorithm of queue mechanism usi

   - Single linked list

   - Array alternative 1

   - Array alternative 2

   - Array alternative 3

2. Use the same info type as before

3. Each member is to write 1 mechanism

JAWAB

1. Algoritma

   - Single linked list Algoritma:

     ➢ Simpan 2 reference: front –
       Buat sebuah node baru N ya

       if queue sebelumnya empty

       else tambahkan N di akhir (

2		

Head = 1

Tail   = 0

Is empty = True

1	2	
5	2	

Head = 1

Tail   = 2

Is empty = True

1	2	

Head = 0

Tail   = 0

Is empty = False

- Array Alternative 2
   Algoritma:

Is empty = True

1	2	
2		

Head = 1

Tail   = 0

Is empty = True

1	2	
5	2	

Head = 1

Tail   = 2

Is empty = True

1	2	
2		

Head = 1

Add(P,4)
Add(P,2)
Del(P)
Del(P)
Add(P,5)
Del(P)
Add(P,6)
Add(P,7)
Add(P,8)
Del(P)
Del(P)
Del(P)
Del(P)

1	2
3	4

Head = 1

Tail   = 3

Head = 1

Tail   = 0

Is empty = True

1	2	
8	7	

Head = 1

Tail   = 3

Is empty = True

1	2	

Head = 0

Tail   = 0

Is empty = False