

TEORI OS 06

Rheza Dewangga Rendragraha

1 D4 TI-B / 2110191044

MESSAGE PASSING

producer
mengura,

producer memanggil signal(full):
menambah nilai full

X

dan

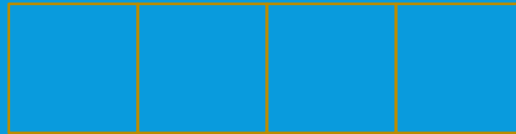
X

PRODUCE NEW ITEM

WAIT(EMPTY)

PLACE TO BUFFER

SIGNAL(FULL)



Buffer
Size: 4

WAIT(FULL)

TAKE ITEM FROM BUFFER

SIGNAL(EMPTY)

CONSUME NEW ITEM



Semaphore Full: jumlah buffer terisi

Semaphore Empty: jumlah buffer kosong

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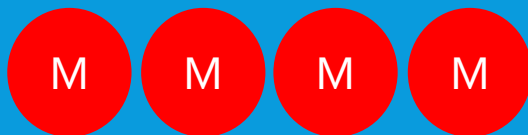
Buffer
Size: 4

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TAKE ITEM FROM BUFFER

SIGNAL(EMPTY)

CONSUME NEW ITEM



2

Semaphore Full: jumlah buffer terisi

3

Semaphore Empty: jumlah buffer kosong

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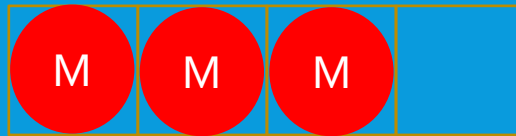
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SIGNAL(FULL)



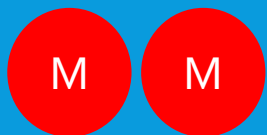
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Semaphore Empty: jumlah buffer kosong

consu'
mengul

consumer mengkonsumsi item yang didapat

X

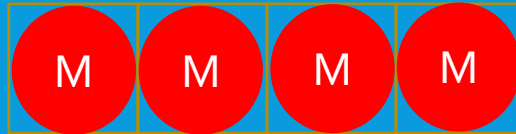
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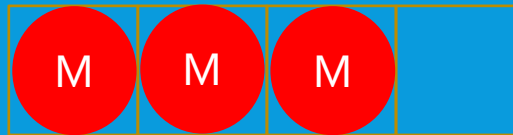
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SHARED MEMORY

Bagian ini hanya membolehkan satu proses untuk mengaksesnya

OS
↓



Merupakan variabel Boolean yang akan menjadi True apabila critical region kosong dan memberi sinyal

Available: False

NEXT →

