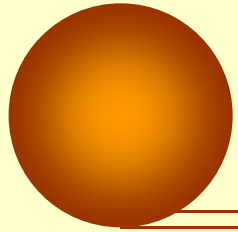
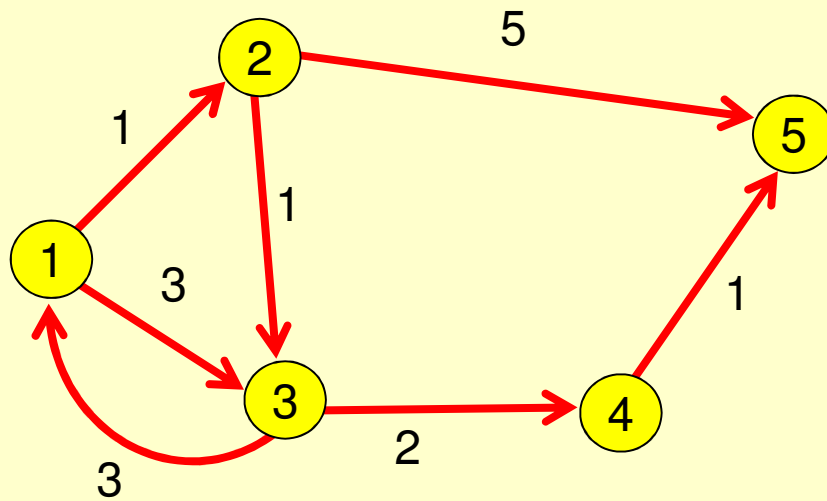


Pembahasan Flowchart Shortest Path Problem

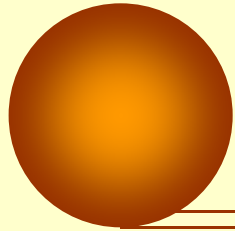
Ali Ridho Barakbah



Shortest Path Problem

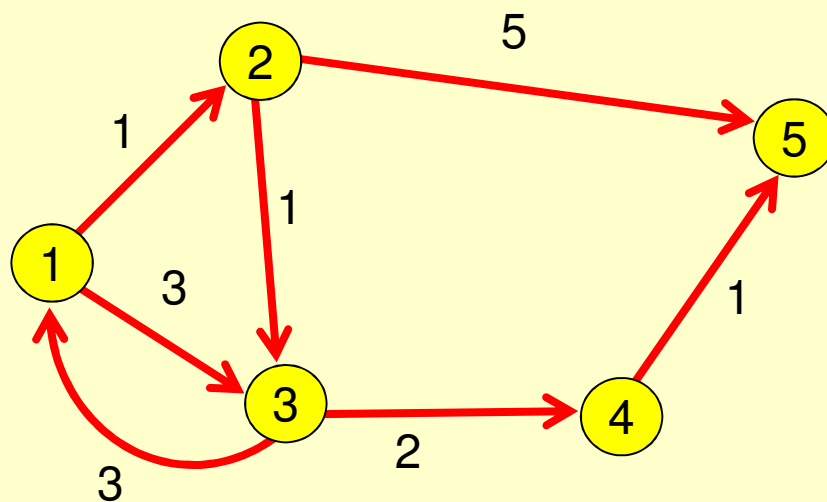


Buatlah flowchart untuk menghitung jarak minimal dan rutenya dari titik 1 ke titik 5

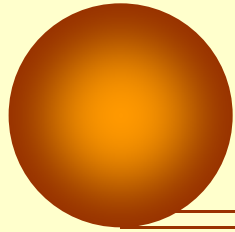


Shortest path problem untuk Single path

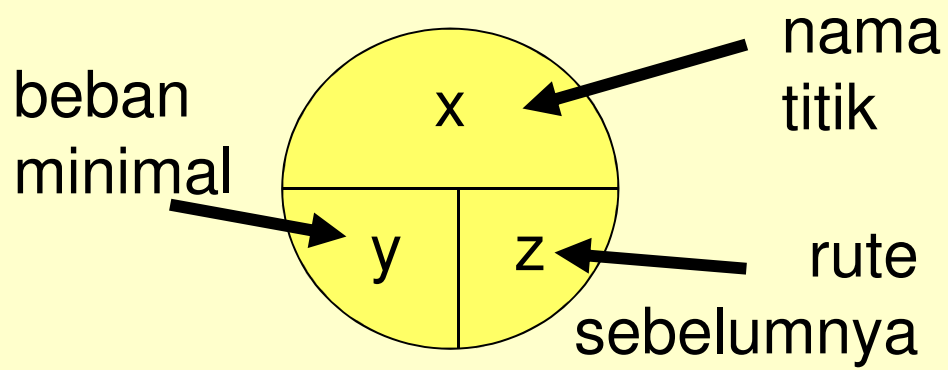
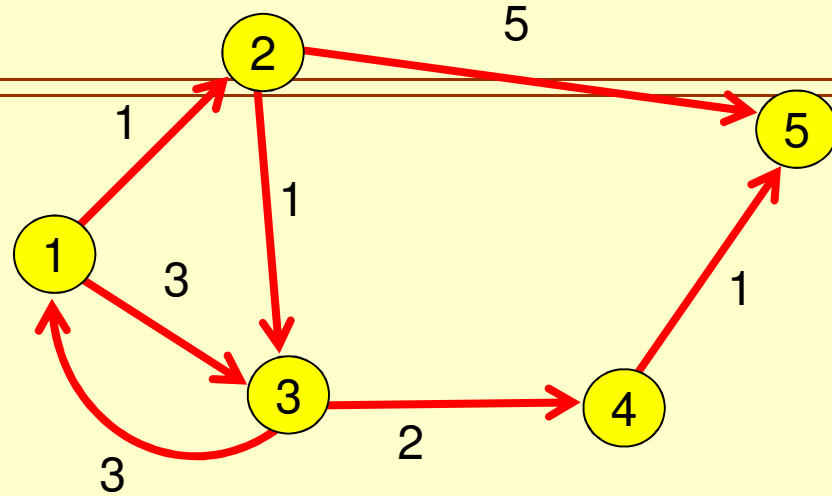
(Algoritma Dijkstra)

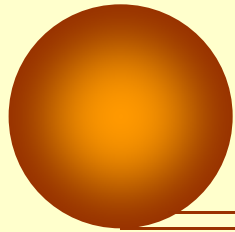


- Tentukan titik asal dan titik tujuan sebelum proses
- Akumulasikan jarak minimal dan simpan ke titik berikutnya. Lakukan dari titik asal sampai titik tujuan

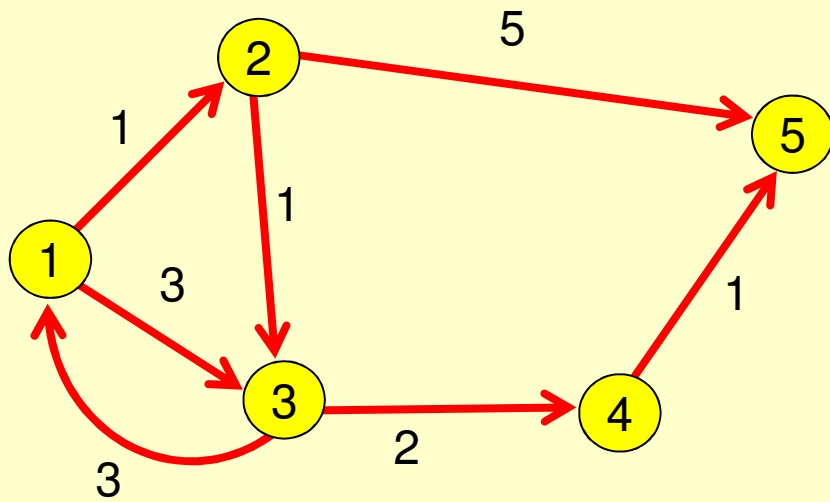


Titik asal = 1
Titik tujuan = 5



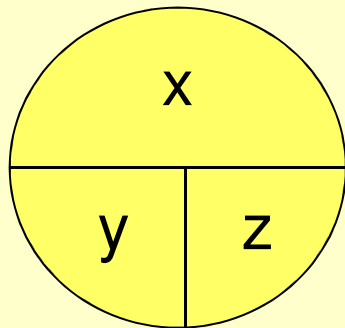


Pemakaian Variabel



$n \leftarrow$ jumlah titik
 asal=1
 tujuan=5

relasi	1	2	3	4	5
1	0	1	1	0	0
2	0	0	1	0	1
3	1	0	0	1	0
4	0	0	0	0	1
5	0	0	0	0	0

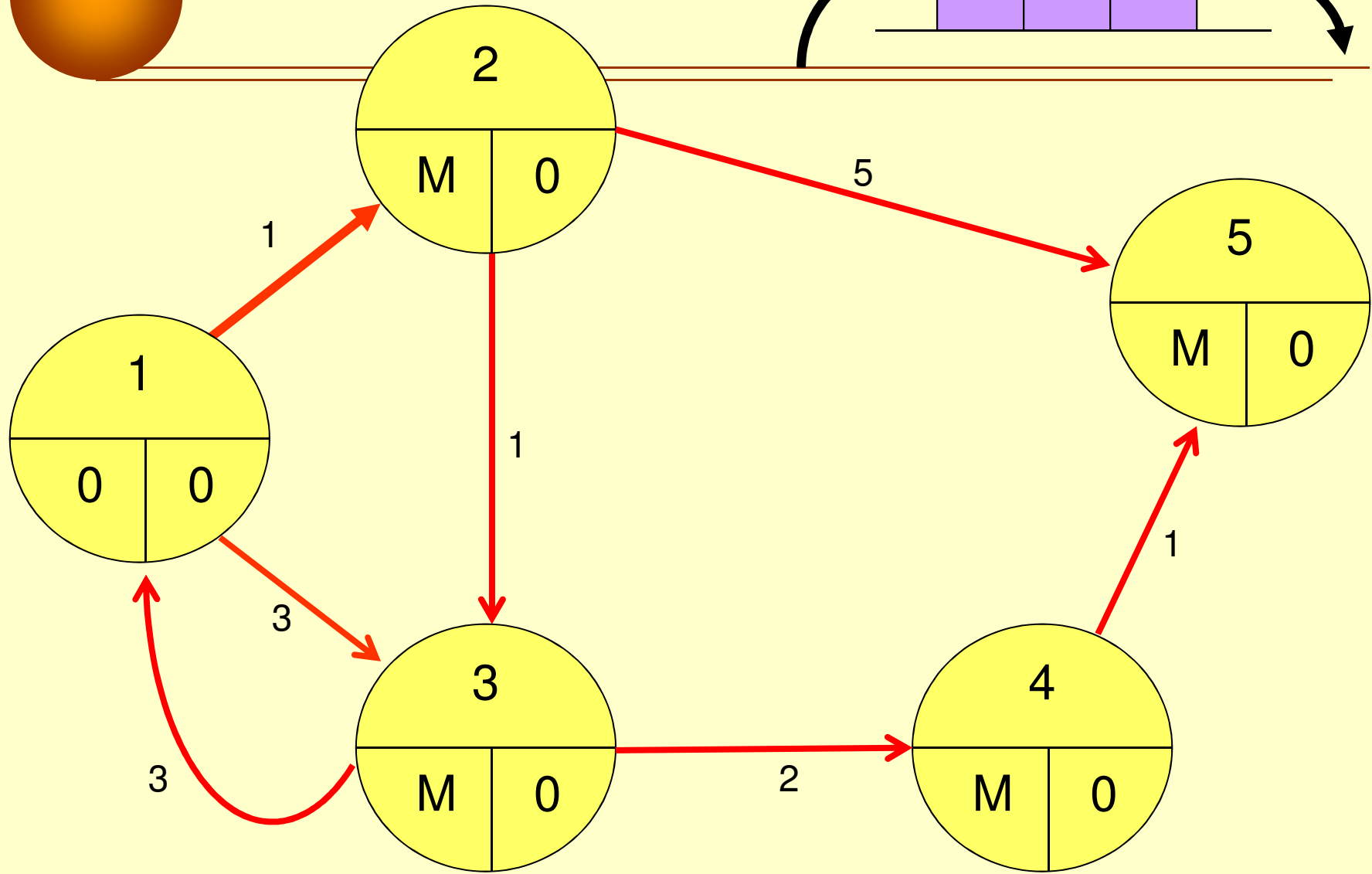
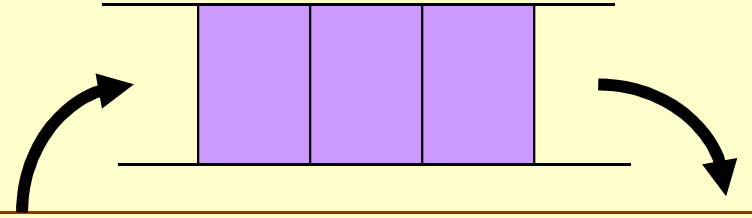
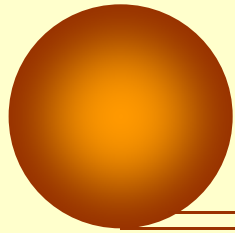


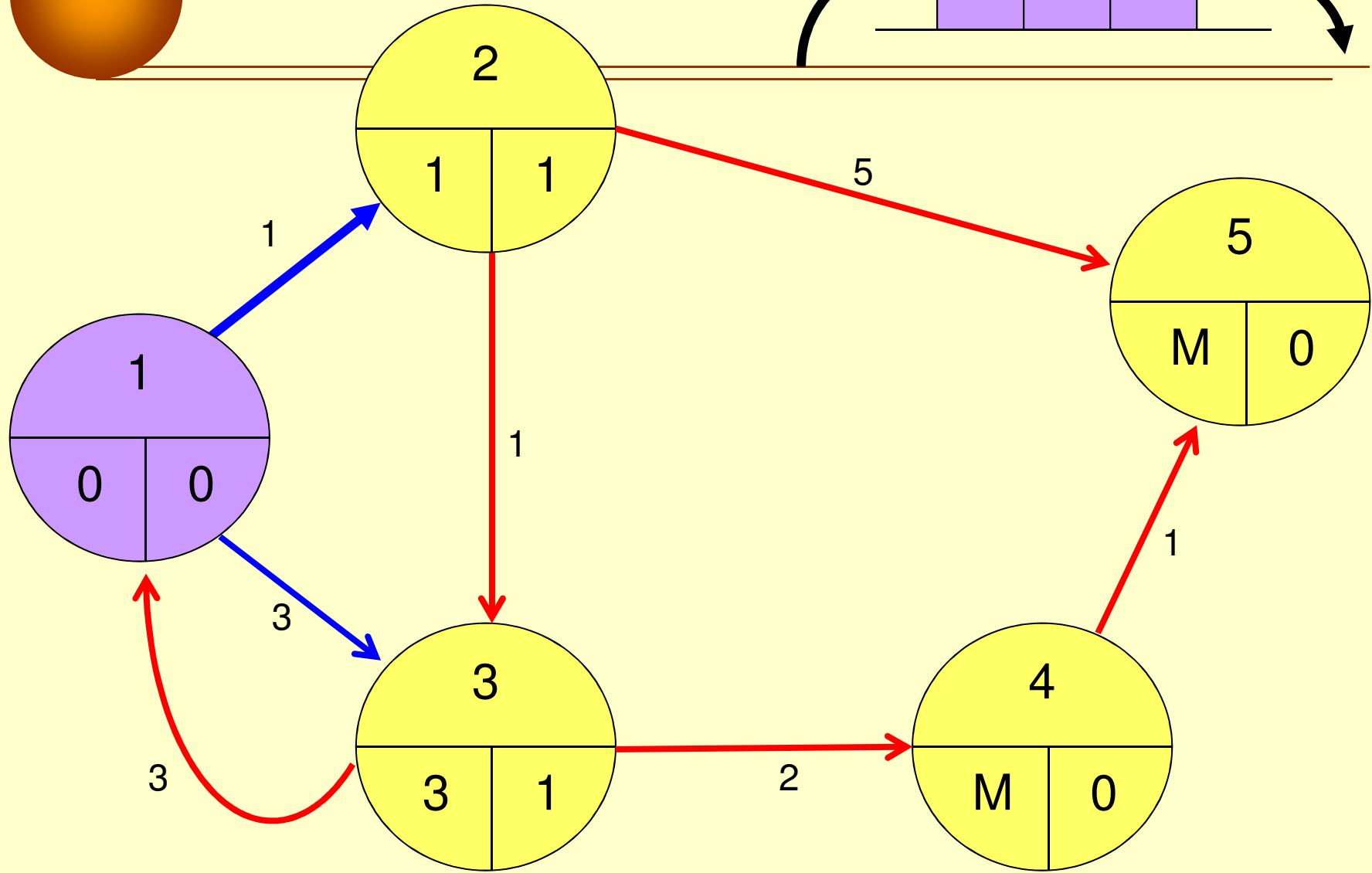
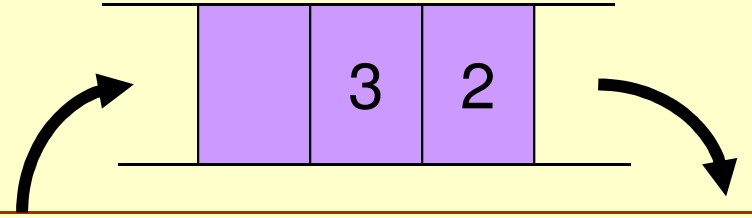
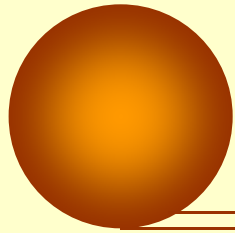
	y
1	
2	
3	
4	
5	

	z
1	
2	
3	
4	
5	

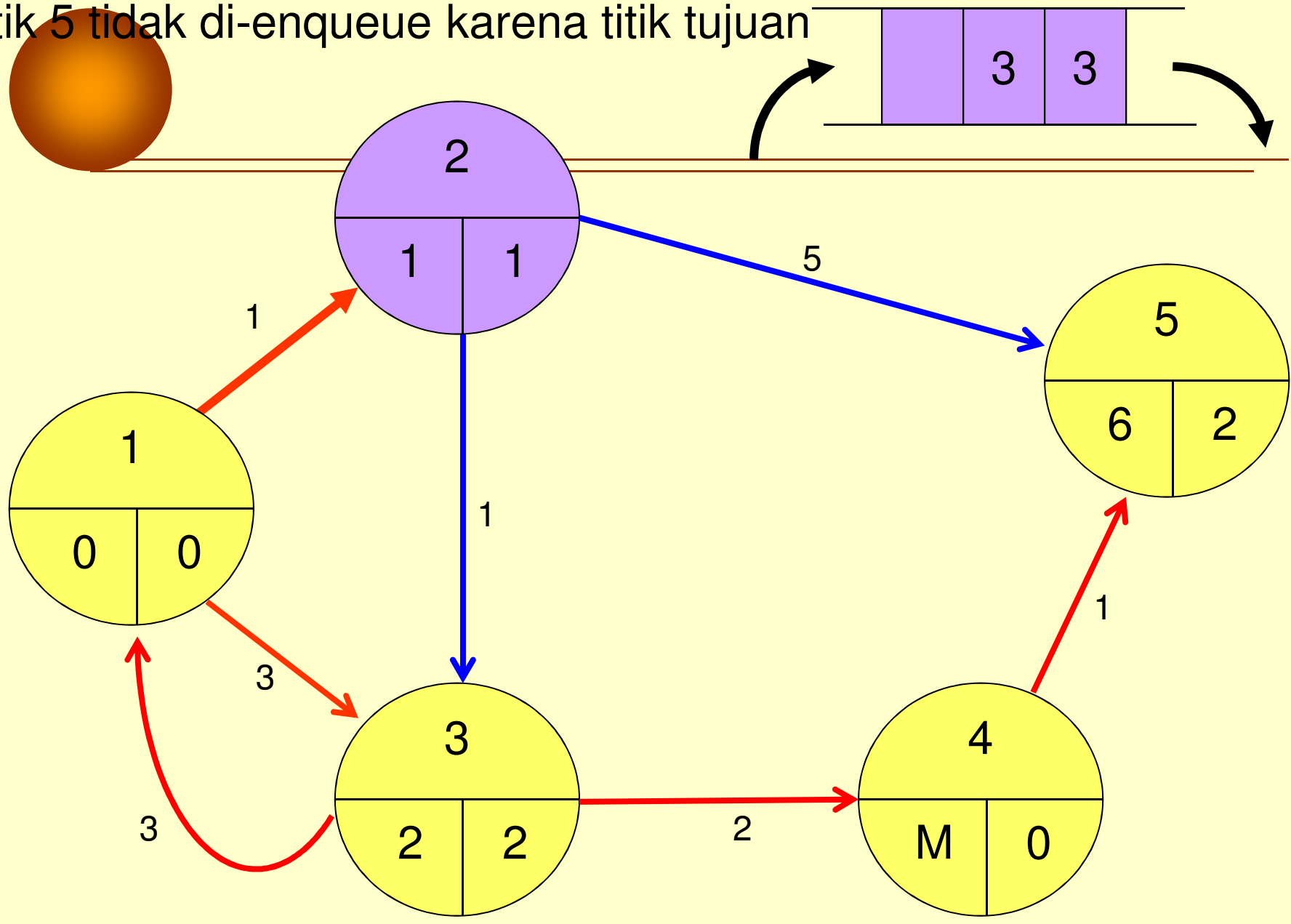
jarak	1	2	3	4	5
1	0	1	3	M	M
2	M	0	1	M	5
3	3	M	0	2	M
4	M	M	M	0	1
5	M	M	M	M	0

M = 1000 (nilai yang besar)

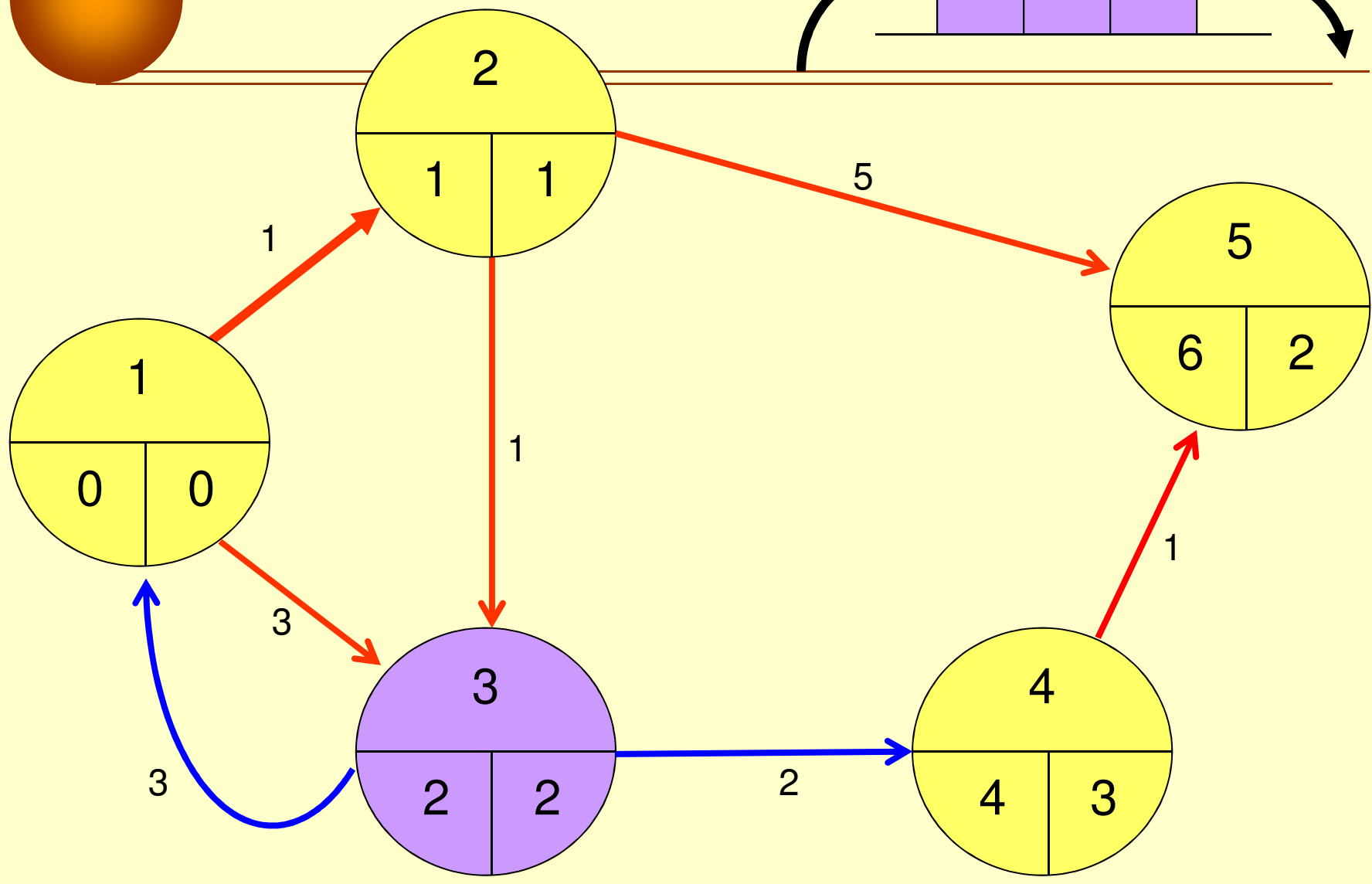
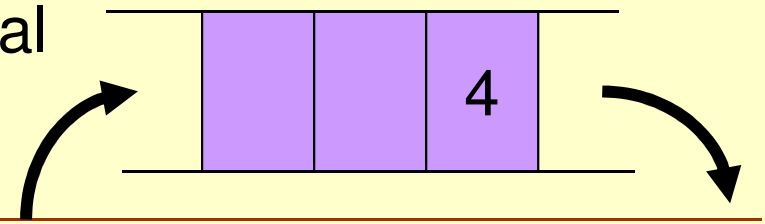




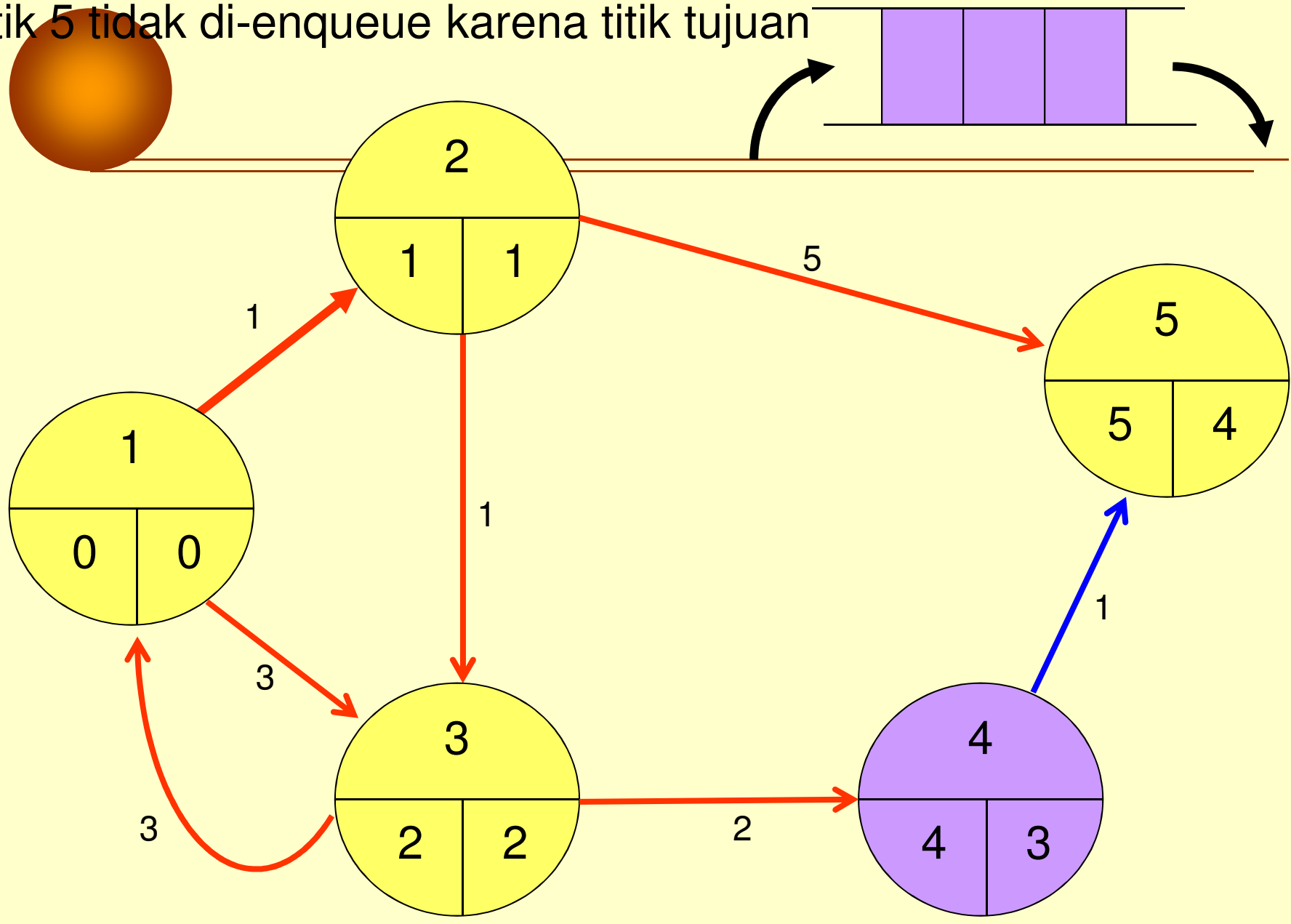
Titik 5 tidak di-enqueue karena titik tujuan

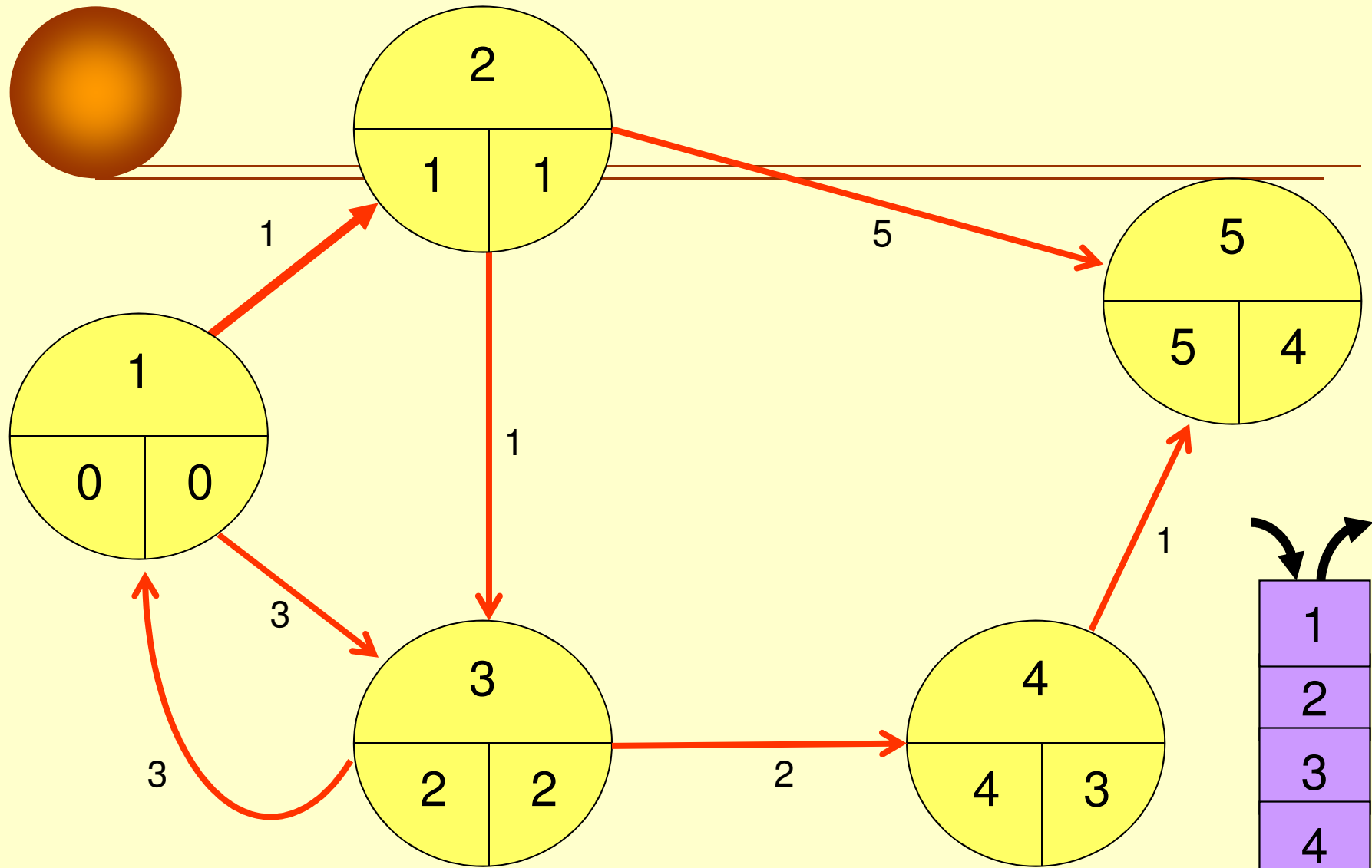


Titik 1 tidak di-enqueue karena titik asal

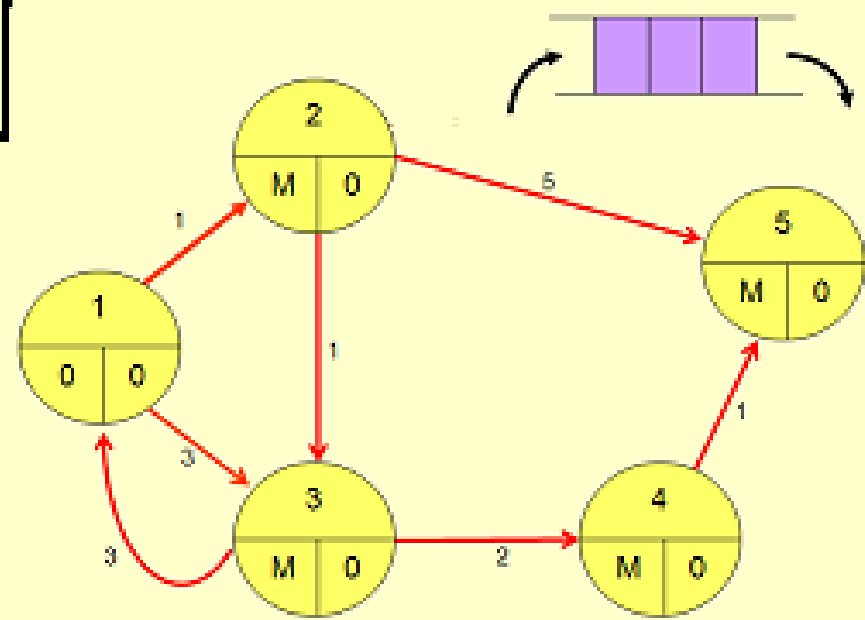
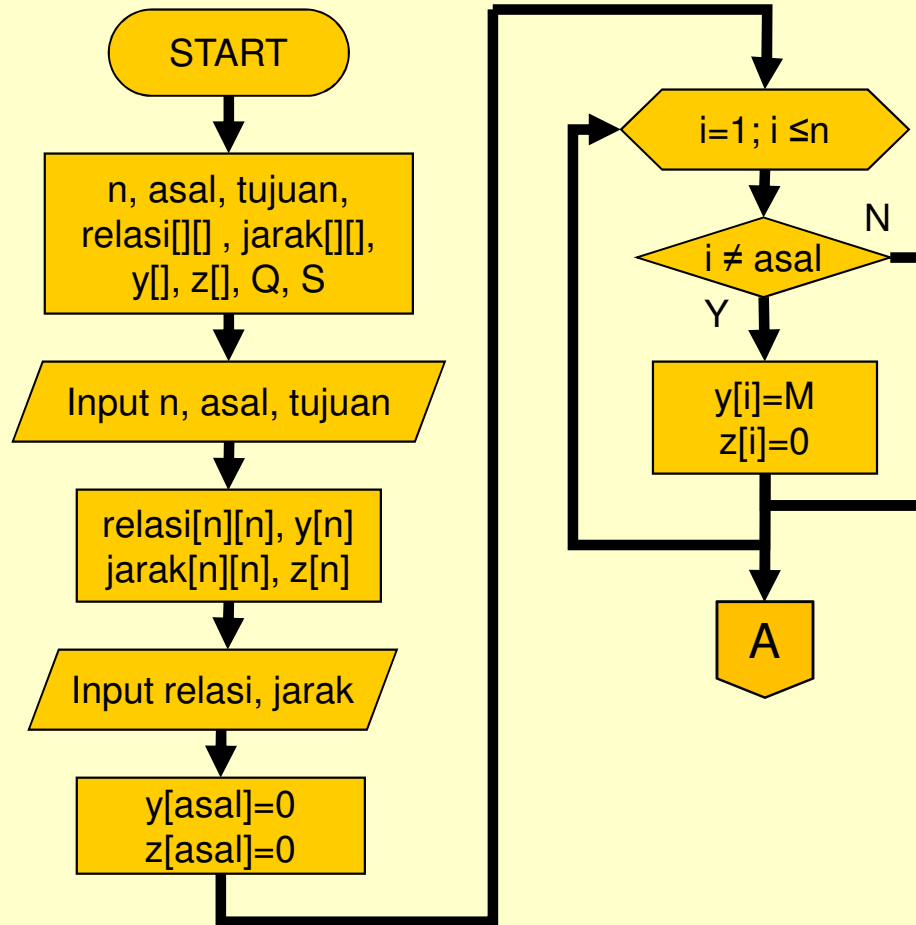
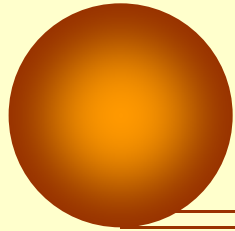


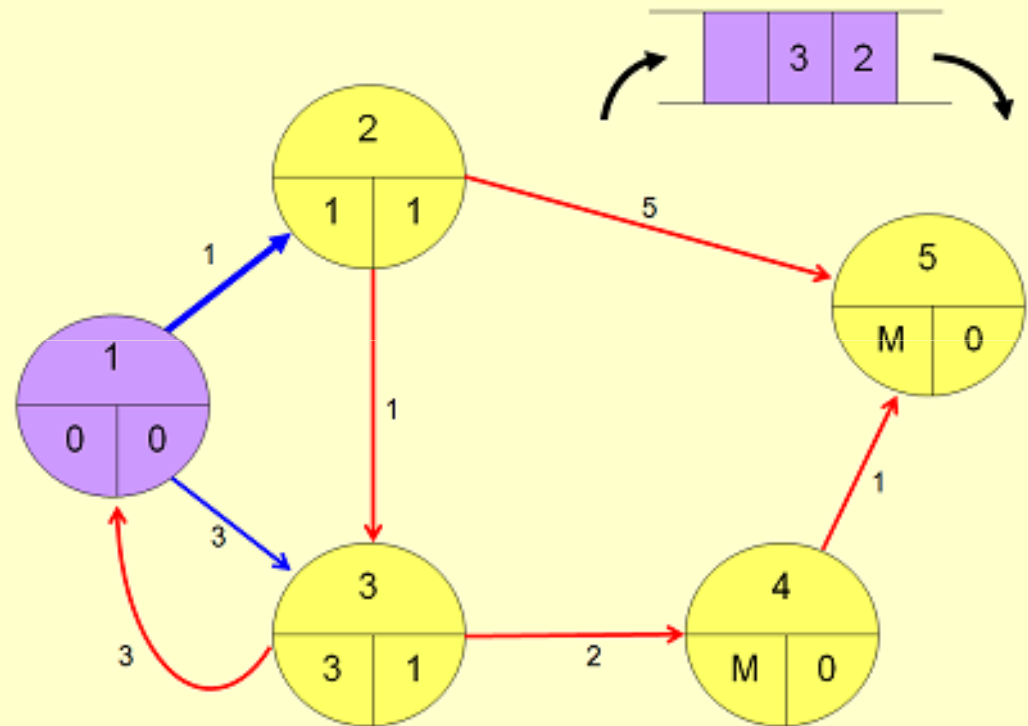
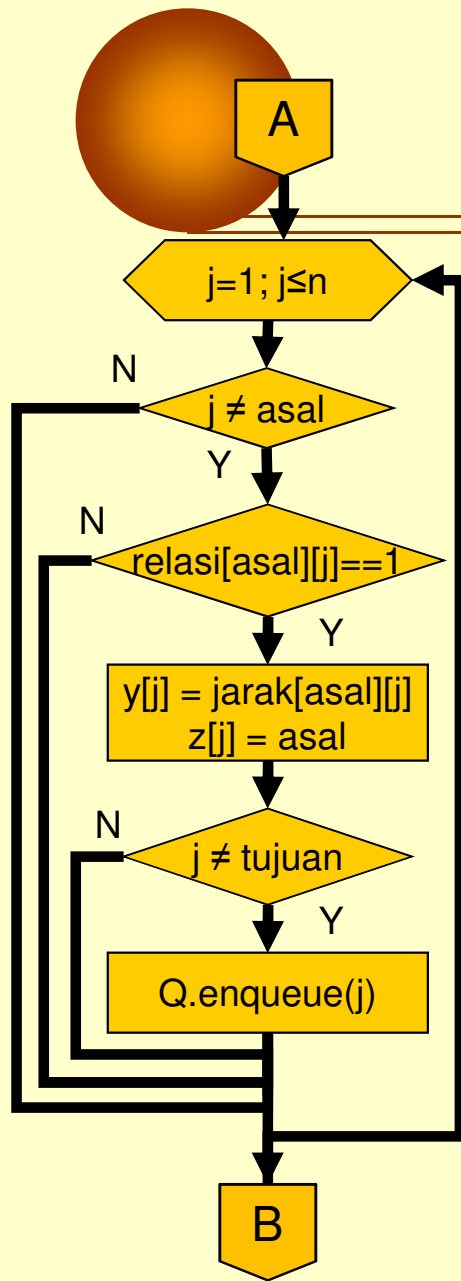
Titik 5 tidak di-enqueue karena titik tujuan

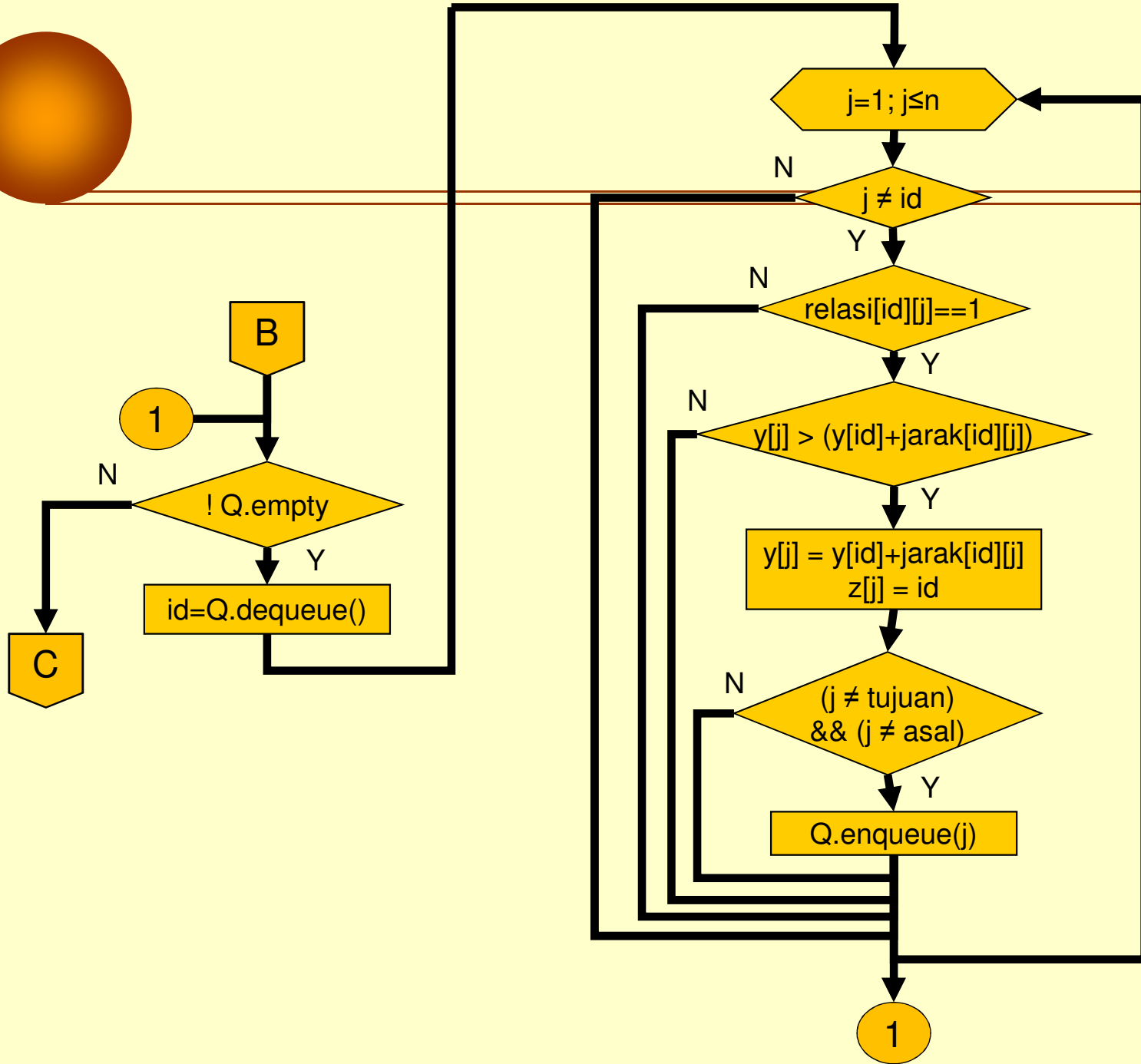
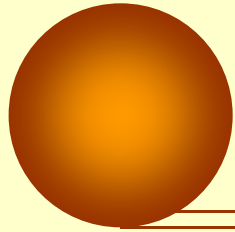


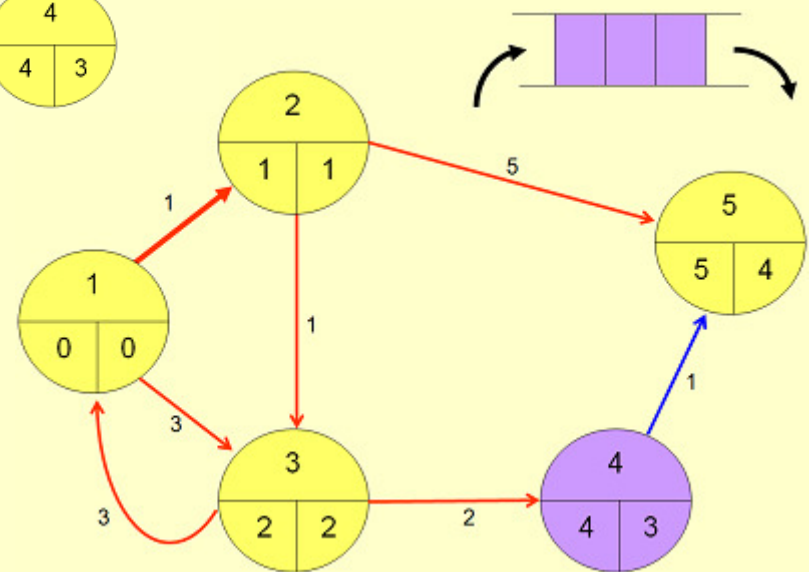
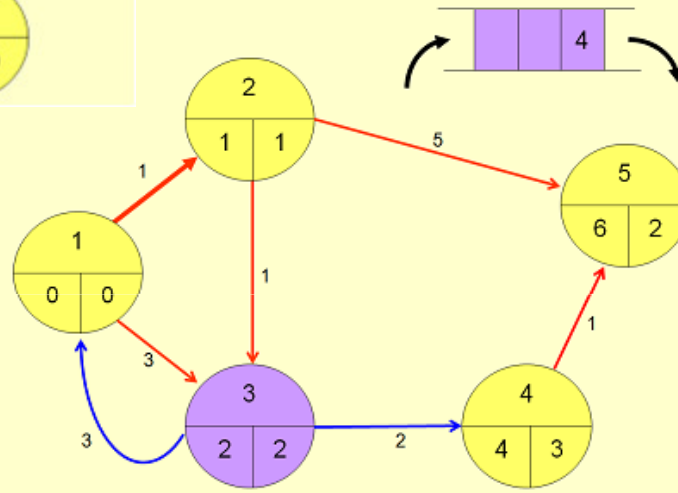
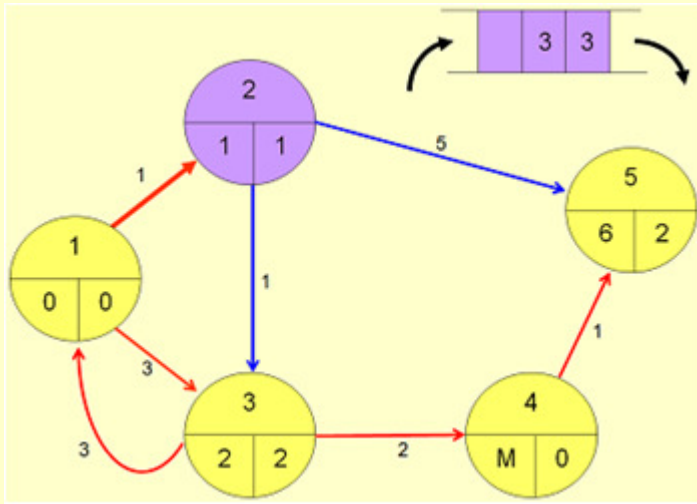


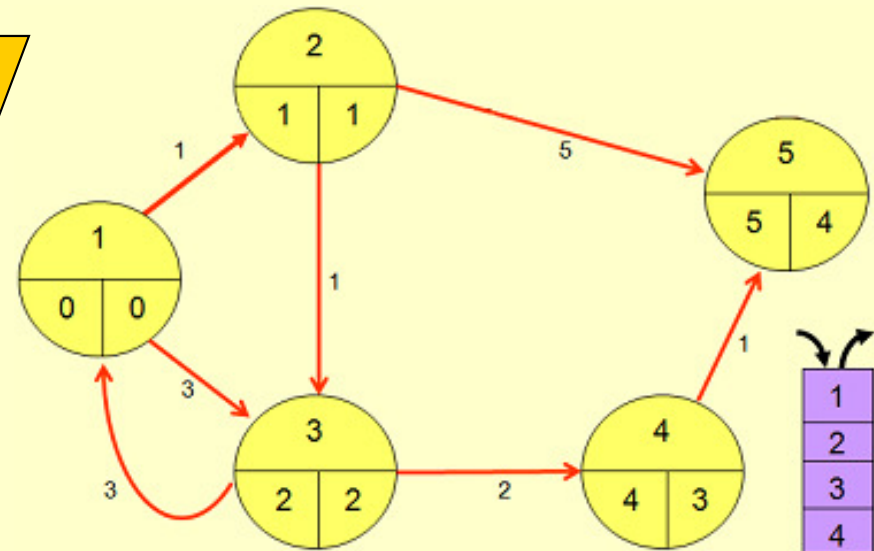
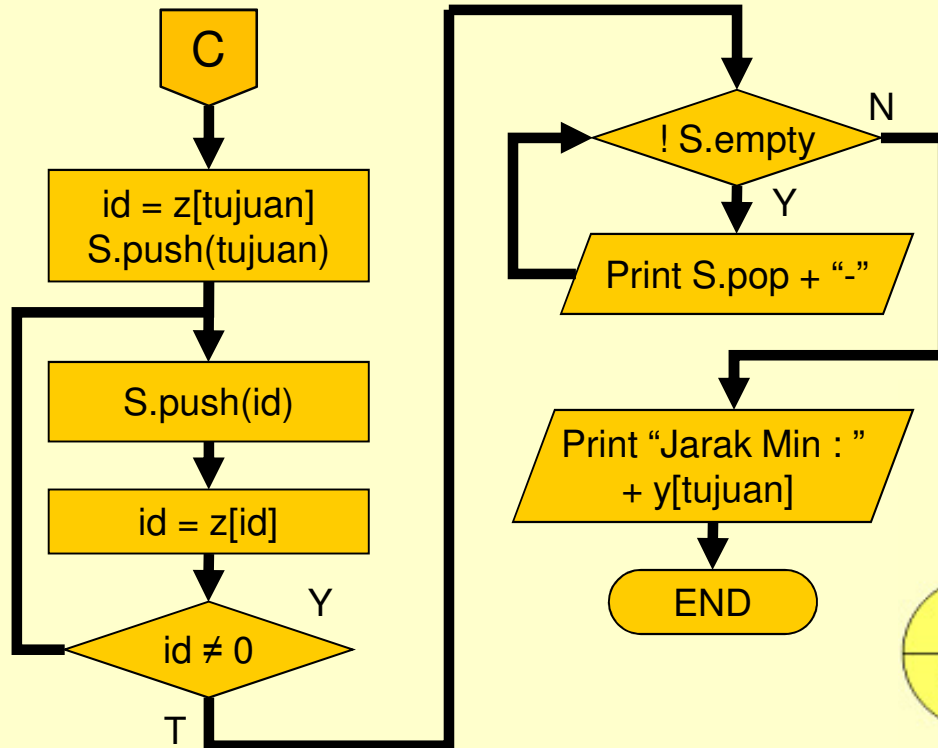
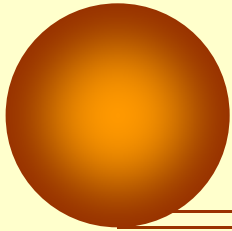
Route : 1 – 2 – 3 – 4 – 5 dengan beban minimal = 5











Route : 1 - 2 - 3 - 4 - 5 dengan beban minimal = 5