$\varpi$ 

 $\varpi$ 

(i) Determine if the system is in a safe state
(ii) Determine if a request of (1,1,0,0) by 74 should be granted
(iii) Determine if a request of (0,0,2,0) by 74 should be granted Allocation Available  $\mathcal{O}$ 0 S 4 p O  $\omega$  $\varpi$  $(\mathcal{V})$ Ŋ  $\omega$ Need からもは 5 N  $\langle \mathcal{N} \rangle$ N 3 VI

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Need - Max - Allocation

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rik a safe sequence he system is in a safe state 73, P3, P1, P2, P4.

> At start available to finishes Pafinishes 2001 W

7, finales Pafinishea Py finishes 1 4 3 2 la 12 8 11 8 5 8 と -0 い 3 5 t b ω -μ

Need MATRIX The albocation matrix is updated to reflect 7, receiving (1,1,0,0) 1 0 W 0 Ø W μ رو otill has a safe sequence 78, P3, P2, P1, P2 The request should be granted anyyoten Available start at Po finishes to finished Pafinishes P. finishes Py finished ed D **19** W 60 P ೪ മ æ ນ ī 0 w W り 4 6

Need Matrix The alboation matrix is imploited show Py receiving (0,0,2,0) ຍ 7  $\omega$ 0 W μ W due to note "C" resource boi state as not process can complete as it would lead to an unsafe The request should not be granted available Available is updated 0