## Banker's Algorium

- Used in Banking to ensure Frest bank novor allocated its available Capl this Shen a way that "Ut could "100 longer Satrety the needs of all

Contoursy. Data stonestiene Usicol: = Available - inditates available mes of East - Max - max observed of each process - Allocation - allocated to each process - Med - homeuning recounts moderal by can proces

Meedo Horo - Albeation

Sofety Algoritum? (1) fet y myhalne woode = Available fruph [P] = false

0=0,1,0=0

Qi Fred an i Buchstrat "H / Somal CIJ = Salere "

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Hope such i desse go to A Wome = wome of Allocation Henry tone

90 to 2

If Sinvilly = tone to all is Safe State Fren Syctern Types of Three fears problemo Excerable A=10 B=5 Po-Rp 5 processes Available Hlar Allocation War. 200 Cope \$0.0C 2 2 9 #31 A /33 Available = total - Allocation

Apply Sapery Algoritum Intuly work = Available voone = 3 3 2 Smah CII = false Hã frush [0] = falle need [0] < vona. 743 < 332 fur LEO) = falso heedCD & work 122 2022 Moore shone & Albertion =332+200 5532 Junsulo ) = Tone Pe "nead(2) < 1000 ne b 00 < 532 fiver Cos = falle

Strunt (?) = Jalue heads & word 0113532 fra C37 = 57 one voore = 532+211 = 742 fun Cro = fale 431 S = 143 Acad (4) & work voore 2 7 243 +002 =745 Jun Cle7 = Fore To needo & work 743 5748 usar = wone + Alle = 7265 + 010 · · · · = 755 B nad 2 < word. 600 875 voesse = none + Antocetori -715 + 302 = 1057



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	(p. 6)		54311	100s/21	1 x No-4	
Do Oo		Aflbration A BC		Araillable ABC		
	20	010	THE STA	3 32		
	PI	302	322	230	020	
	Pz	211	222		0 1 1	
	Provides an additional regner (1,0,2)  Cheese Request & need & Reg & Avail					
	Checle 102) < (122) : 2m /69					
<u> </u>	(332)					
	(	So allocate the reguested resource.				
	1. April = Avail   Reg = 2 2 2 - 102 = 2 30 - repolate 17 in table					
			= 2,5		table	

answer M. may so same? Allo Caeria = Alle + Reg - 200 + [02 = 302-11 Meed = Meed - Reg 2--10.2 20:4 \*253876 Jest Far Kar · Mr stystall 22 spec To the state of th