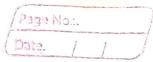
	Pagé No.: Date.
	Deneng Philosophers problem
	Wirting Tribung
	Danging table > 5 phalosophers 5 forks
pianianianianianianianianianianianianiani	F(Po) Fo
	PI) Py
<u></u>	F2 (R9ce bowl) = F4
	Pa)
	F ₃
· Jan	
-,-	vogd Philosopher (vogd) &
-,	whole (true) of
	Thenking ();
	table-fork(i); - left fork table-fork((i+)/N); - right fork
-,	EAT();
Na Managaran	put fork(i); put fork((i+1)%N);
	· · · · · · · · · · · · · · · · · · ·
*	3 Thank
	Philosopher ?
) Eat
-	
*	

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	(Date: / /
	Case 1: Po comes
	J=0
7	left-fork=0
• •	left-fork=0 Reght fork=((0+i) 1-N)=I(fi)
	Eating
	fo F
	f_1
	end
,	taxe 2: P1 comes
	<u> </u>
	luft fork = 1. (f_1) right fork = 2 (f_2) Eating
	right fork=2 (f2)
	Eating
	f ₁
	$\frac{f}{2}$
T	Case 2:
	D. A. D.
	Po packa fo & Pi packs fi
	D D
	Po. Pi
	$f_0 \uparrow f_1 f_2$
	J 2
	When Pi completes eating then
	only to would get the fork
	3-7-10-7
	(9)
	problem of scace cond occurs.

S[i] -> ruse away of semaphores greffalize every Initially: 18 81 semaphore with 1 as when Grifffalized with 0 it waits \$ gets blocked i Code: word philosopher (word) rohle (true) Thénking ();
Wait (table fork (S[i])
Wait (table fork (S[i+1) modn]) Segnal (Put-fork (i)); Signal (Put-fork ((i+1)/N) P4 -> S4 -) Case 1: When Po comes So \$ 5, (1-)0) \$ while going out (0 -)



Po & P2
Po & P2
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2
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-

