		PAGE NO:	7
#	tocked to hostock	DATE:	
- 1	hers problem		
+	include (phose)	to solve	philoso
#	include (pshread, h)	31*	
-	include (semaphore h)	17.04	
1	include (Stdin b)		
14	include (Stdion)	The many	
m/ m to	tinclude curions	Tilde press	
mand or	tinclude cunistable	I Below the	
S	em: ++ forus	1267:47	
and the second second	L. Killing and C.		
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1	loids phil	Proceedings.	
	1301 losopher pression 1-11	invent 5	
	printfl pyd i'c in illi	-1-2-11	
	Sem wait (& mutex):	/ \D , id);	
	Total Piled is and	1 1 1	
304.40	Sem wait (& forks [id]);	a to eat	n", id);
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	Sam post (Emuter);) 1/- 5/);	7
	cloop (1)	THE CONTRACT	
	sleep (1); and mand	me show	Allery Dr.
	1 10 00 0 1 C 0 0 1 C 0 12 2		9 1
	sem poit (& forki (id])	1011101	
	Sem-post (& forks [Cid+	1) ~ 57.);	
	2 return NUCL:		
	3 Shirth Shirth	The series	
	void + philosopher_two (vo	id numl	
	int id= * (int 1) num;	12 to it I	
10	prints printis wait	ing In" id,	<i>).</i>
	Sem wait (& forks [id])		
1	Sem wait (& forks (Cio		
1	printf ("p.y.d) is gra	nted to ea	1 10" id)
1	· isistaeplas din montani da	him	
	10 148 1 11 X		

Sem post (& Porks[id]); Sem-post (& forks (id+1) 4.67). return NULList inconstitution int main() (int num philosophers; num hungry priots ("Dining phi tosophore problem) prints (" Enter the total noof philosopher scant (" 1.d", & numphilosophen: ") int hungry positions I num hungry] for (int i=0; i<num_hungry:i++) printf. ("Enter philosopher I'd possition 1+1); (* Lain) > + 1 bis scantlind lown hungry); hungry Positions Pil-Sory = (sem=+) mallor (num philosophers · Sizeot (sem +1); pthread + philosophers Incem hunger int ids [num hengry]: for (int i=0; ixnum philosophers; i+th y seminis (& forksli), o, s); sem init (& muter, 0, 1); int choice; Printf (" \o 1 One can eat atiatione") Drinse'r in oas est a time 1 + 3 txit printer Ensergour choice: scanflindigle choire); if (choice == 1) / Prints ("Inplion one philosopher) at any time

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	ids (i7= hungry polision(i7)
	Dibrad Crear (& philosophus fit, NULL,
The state of the s	Philosophen one fidilità
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	4 Chert C.Choice== 2/6
In'l	prints ("In Allow two philosoptes of
2007	The day of the Marie Vine Vine Vine Vine Vine Vine Vine Vi
The state of the s	for (int i=0 in i (num hungry) i++) (
	ids (i]= hungy_positions (i):
	Pethread crear (&philosopherici), NULL,
30.	philosophen two lids (i);
The state of the s	3
N. A. C.	to Inchest and and and
	print (" Filiting program \n"):
	free (forus):
	returnos
	y and the second of the second
	Sor (int i=0; i < num hungry i++)
	pthread join (philosophen (i) NULL);
	3 to at his one in Eq.
	to. (inti=0; i'(num philosophen; i++){
	Sem destroy (& forus (i);
Unit	1 3 has a listener in the
	Sem destroy (& muter);
	Free (forks);
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