	Page 32	PM_
	Write a C-program to simulate Producer - consumer pront	
dendrise.	lemusing semphores.	\$
		return (
	The indicate the second	900
	int muten = 1. full =0, empty = 3, m=0; - mol.	int signo
	int main ()	return 1
	S No	3
	10t 1);	void pro
	void producer ();	S
3 (11	void consumer (): 11922 and 12022 - othory 1804	muten
07	int wait (int); it = jugar. madinaxa . (a. ? 2) unt	full =
	int signal Lint);	empt
walttai	fint of 1" no entery and choice "33- admara him	n++
	scap +1" /d" \$03/10009 / 11 - 3)011 3 1101	Print
: (Switch 117 7 Tack AND Sweet (1) 1000	mut
	\$	24
	case 1: 17 ((mute n = = 1) & & (empty !=0)) + 11 (110)	vosc
	producer (); C:23101 (2 13donua 1340)	5
	Antes Tasks and and I along the	
	Print f ("Bufferis full!!!"); 20:200 min ositusis	m
	break: Daylers Juni!	fu
	break; na contained break;	e
-	case 2: 1f 1(muten == 1) for 1-full 1 =0) 07 (2+0)	P
	consumer(); as is and noitures	0
	else 27 : anthornish and	\
	Print + 1" Buffer is empty !!?); o and nx ild y un	
	brent: bolished and about	
	break; bolimons and an stant case 3:	
,	case 3.	
	exition; and and unanterior and and and	
	break ;	7.
	2	2
	3	
	Ceturn 0;	
î	nt wait lints)	1

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return (--s);
 int signal lints)
return (++5);
void producer ()
muten = wait (muten);
full = signal (full); mat the source of source)
empty = wait (empty);
Print fill o Producer produces the item 1.d", m);
muten = signal (muten);
Void (on sumer ()
muten = wait ( muten);
full=wait (full);
empty = signal (empty);
Printfi" \n consumer consumer item /d", m);
muten = signal (muten);
Output
Producer
Consumer
Exit
Enteryour chorce: 2
Buffer i's empty!
Enter your chosce: 1
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producer produces stems. Other your choice: 1 Consumer concurres stems. Consumer concurrence stems.			Control of the contro	Fage 34
Enter your choice: 2 Consumer concumes item 2. Consumer concumes item 3. Consumer concument item 3. Consumer concumes item 3. Consumer concument item			\$2	
Enter your choice: 2 Consumer concumes item 2. Consumer concumes item 3. Consumer concument item 3. Consumer concumes item 3. Consumer concument item				A THE REST PROPERTY OF THE PARTY OF THE PART
Enter your choice: 2 Consumer concumes item 2. Consumer concumes item 3. Consumer concument item 3. Consumer concumes item 3. Consumer concument item			producer produces éters.	115mb(2)
Enter your choice: 2 Consumer consumes item 2. Consumer consumes item 1. Consumer consumer item 1.			Anter your choice:1.	3
Consumer consumes item? Consumer consumes item? Consumer consumes item? Consumer consumes item! Consumer consumer item! Consumer consumer item! Consumer consumer item! Consumer consumer item? Consum			Dead I an Ordinate	्रिक्स डांवरवा राहार दर्श
Consumer conside: 2 Consumer consumes item 1. Consumer consumer item 1. Consumer item 1. Consumer			Enter your choice: 2	3
Consumer concumes item). Consumer concumes item). Consumer concumes item). Conter your choice: 2 Buffer is empty!! Conter your choice: 1. (content tipous testum Conter your choice: 1. (content tipous testum Conter your choice: 1. (content tipous tipous Content produces the item). Content tipous the individual temple: 5 material Consumer tipous the individual temple: 5 material Consumer tipous the individual Consumer tipous tipous the individual Consumer tipous tipous tipous Consumer tipous			Concumor Conscin	Pt auni
Consumer concumes the steer your choice: 2 Buffer i's empty!! Enter your choice: 1. (matural rigou restoral former produces the steer): (mathapis: matural rigous restoral former produces the steer): (mathapis: matural rigous restoral formers restoral respective matical respective matical respective material respective mate				/ // /
Enter your choice: 2 Buffer is empty!! Enter your choice: 1. (astum! tipus : this Producer produces the item of the instead			Concumer concumes ite	m).
Buffer is empty! Enter your choice: 1. (notion) a trail Producer produces the itemps (unit in produce) (a, in a matical produces produces the item is a facility of the matern.) (a, in a matical produces produces the item is a facility of the matern.) (a matern = signal imatern): (a matern = coait i matern): (a matern = coait i matern): (a matern = coait i matern): (a matern = signal i empty), (a matern = signal i empty), (a matern = signal i empty).			Enter your choice: 2	1,43
empty = wait (empty); Print 1 1 10 Producer producer the item /d'. 2) Pointern = signal Imutern); I sint t in the consumer (neurositem /d' n); I sint t in the consumer (neurositem /d' n); I sint t in the consumer (neurositem /d' n); I sint t in the consumer (neurositem /d' n); I sint t in the consumer (neurositem /d' n); I sint t in the consumer (neurositem /d' n); I sint t in the consumer (neurositem /d' n);			Putto: ic empty!	1917
empty = wait (empty); Print 1 1 10 Producer producer the item /d'. 2) Pointern = signal Imutern); I sint t in the consumer (neurositem /d' n); I sint t in the consumer (neurositem /d' n); I sint t in the consumer (neurositem /d' n); I sint t in the consumer (neurositem /d' n); I sint t in the consumer (neurositem /d' n); I sint t in the consumer (neurositem /d' n); I sint t in the consumer (neurositem /d' n);			Color (O) & choice: 1.	(mathal tiber & kathal
Pirt 1 (1 No Producer producer the item 1/11', 10) Router = Signal Ironders), Solver = coait I muter); full = coait I full); emply = signal tempty), I inth 1 (1) An Consumer (mecuner item 1/11' m) router = signal Ironders); Puter = signal Ironders); Autput			Parties and use the it	
Print (1 xp Producer producer the item 10", p) Pouter = signal Impule »), Villen = wait I muten); full = wait I full); emply = signal tempty), I hint I with (meumen (meumer item 10" p) on Puter = signal (muten).	_	A	mander produces	Ampty = wait 1 empty)
South of the sumer () South of the sumer () July = wait (july); Emply = signal (emply), I shall when consumer (resumer (term /1" m): The signal (mule a); South of the signal (mule a);	_			1 + + 10
South of the sumer () South of the sumer () July = wait (july); Emply = signal (emply), I shall when consumer (resumer (term /1" m): The signal (mule a); South of the signal (mule a);				22 2014 box 9 20 11 1 40in
Void (a) sumer() Super wait (full); full = wait (full); empty = signal (empty), 1 sist 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_		spices the item / h, n)	restrict the place regimes
Second of muter): full = wait full); emply = signal empty), right 12 to (consumer (neumer (101) / 1" m); nouten = signal (muter), 2	_			1 9/10/11
Second of muter): full = wait full); emply = signal empty), right 12 to (consumer (neumer (101) / 1" m); nouten = signal (muter), 2	-	$-\parallel$	*	(11020 III 00 1 h 2 y
muter= coait 1 muter); full = coait 1 full); emply = signal (empty), on muter = signal (muter); Autput	_			
full = wait (full); emply = signal (empty), on inuten = signal (mulen), Autput	_	_	and the second s	
emply signalitempty), I wint to signal timuten), and the signal timuten), Author A			42	
International Consumer (Lein 10, 2): On			Water the second second	tull= wait (Jul 1) is
International Consumer (Lein 10, 2): On			,CH	empty = signalitempt
Output		1		
Lugue E				
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1. Moducer		10	Sac.	tratio
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				1. Moduces

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1.Producer
2.Consumer
3.Exit
Enter your choice:2
Buffer is empty!!
Enter your choice:1
Producer produces the item 1
Enter your choice:1
Producer produces the item 2
Enter your choice:2
Consumer consumes item 2
Enter your choice:2
Consumer consumes item 1
Enter your choice:2
Buffer is empty!!
Enter your choice:1
Producer produces the item 1
Enter your choice:
```

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