PRACTICA Nº 1 INF 151 - SISTEMAS OPERATIVOS

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ADMINISTRACIÓN DE PROCESOS Y PROCESADOR

1.¿Qué es un proceso?

R: Es un programa en ejecución que no solo incluye el código, sino también su estado actual, los recursos que está utilizando como la memoria, registros de la CPU y archivos abiertos. Cada proceso pasa por un ciclo de vida que incluye creación, ejecución y terminación.

2.¿Qué es el abrazo mortal y su causa?

R: El abrazo mortal es otro nombre para el interbloqueo, una situación en la que dos o más procesos quedan bloqueados esperando por recursos que otros procesos tienen. La causa principal es una dependencia cíclica entre procesos que retienen y solicitan recursos.

3. ¿Cómo prevenir el interbloqueo?

R: Se puede prevenir de varias maneras:

Evitar la espera circular: Garantizar que los recursos se pidan en un orden específico.

Preasignación de recursos: Asignar todos los recursos necesarios antes de que el proceso comience.

Liberar recursos antes de solicitar nuevos: Los procesos deben liberar los recursos actuales antes de pedir otros.

Algoritmo del banquero: Verifica si las solicitudes de recursos son seguras antes de asignarlos.

4.Investigar y describir brevemente cómo funciona el algoritmo FeedBack (FB) de Planificación de p.

R: Es un algoritmo de planificación que ajusta la prioridad de los procesos dinámicamente en función de su comportamiento. Los procesos que usan menos CPU tienen mayor prioridad, mientras que los que consumen más tiempo son degradados a colas de menor prioridad. Esto permite una respuesta rápida a procesos interactivos.

5.¿Cómo funciona la shell?

R: La shell es una interfaz que permite al usuario interactuar con el sistema operativo, interpretando los comandos que se ingresan y ejecutándolos. Puede ser tanto interactiva (se usa en tiempo real) como no interactiva (a través de scripts).

6. Diferencia entre planificación expulsiva y no expulsiva

R: En la planificación expulsiva, un proceso puede ser removido de la CPU antes de que finalice, por ejemplo, cuando llega un proceso con mayor prioridad. En la planificación no expulsiva, una vez que un proceso tiene la CPU, la conserva hasta que termina su ejecución o entra en estado de espera.

Ejercicios.

1. Considere la siguiente situación

- Determinar en qué estado se encuentra el sistema con el algoritmo del banquero
- Si el proceso P2 ahora quiere más recursos (0,4,2,0) vuelva a calcular el estado del sistema.

		N		
	R1	R2	R3	R4
P1	0	0	2	2
P2	1	7	5	0
Р3	2	3	5	6
P4	0	6	5	2
P5	0	6	5	6
P6	2	3	4	2

		Α		
	R1	R2	R3	R4
P1	0	0	1	2
P2	1	0	0	0
Р3	1	3	5	4
P4	0	6	3	2
P5	0	0	1	4
P6	1	0	2	2

	F	₹	
R1	R2	R3	R4
4	14	14	14

		D	
R1	R2	R3	R4
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		D R1	R2		R3	R4	+ +		R1	R2	R3	R4		
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	P3 P4	+	2	3 6		5 5	6 P	4	+	0	3 6	3	2	
	P5		0	6		5	6l P	5		0	0	1	4	
	P6		2	3		4	2 P	6		1	0	2	2	
		R							D					
	R1	R2	R3		R3		R	11	R1	R3	R3			
		4	14	14		14			1	5	2	0		
	a. Deter	minar en qu	é estado	se encu	entra el sis	tema con e	algoritmo del ban	iquero b. S	i Bi el proceso	o P2 ahora	quiere más r	ecursos (0,4,	.2,0) vuelva a	a calcular el e:
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	P2 P3		0	7 0		5 0	2		P2		1	0	5	4
	P4		-	0		2	0		P3 P4		-	3 6	3	2
	P5		0	6		4	2		P5		0	0	1	4
	P6		1	3		2	0		P6		1	0	2	2
3.PASO	ACTUAL	JIZAS VRD												
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	P2		1	7		5	0		P2		1	0	9	0
	P3 P4		2	3 6		5 5	6 2		P3 P4		0	3 6	5 3	2
	P5		0	6		5	6		P5		Ö	0	1	4
	P6		2	3		4	2		P6		1	0	2	2
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			2	8	8	6								
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	P5	1		6	5	6		P	5	0	0	1	4	
	P6		2	3	4	2		Р	6	1	0	2	2	
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4.ITERACIO)N											
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3.PASO	P1 P2 P3	B1 0	R2	R3 0 0 0 0 0	R4 0 0	0		P1 P2 P3	R1	A R2 0	R3 0 0	R4 0 0 0 0
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3.PASO	P1 P2 P3 P4 P5 P6	D R1 0 0 0	R2 0	R3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R4 0 0 0 0 0 0 0 0 0 0		F F F	P1 P2 P3 P4 P5 P6	1 0 0 0 0	A R2 0 0 0 0 0 0 0 0 0	R3 R4 0 0 0 0 0 0 0 0	0 0 0 0 0
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1.PASO		D-A							Α		
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	P2		0	11	6	0	P2		1	0	0
	P3		1	0	0	2	P3		1	3	5
	P4		0	0	2	0	P4		0	6	3
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4.PASO											
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		R1	R2	R3	R4			R1	R2	R3	R4
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	P2		1	11	6	0	P2		1	0	0
	P3		2	3	5	6	P3		1	3	5
	P4		0	6	5	2	P4		0	6	3
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	P2 P3 P4	R1	R2 0 0 0	0 11 0	0 6 0	SET. A 0 0 0 0	P2 P3 P4	R1	R2 0 1 0	0 0 0	0 0 0 5
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	P2 P3 P4 P5 P6		R2 0 0 0 0	0 11 0 0	0 6 0 2 4	SET. A 0 0 0 0 2	P2 P3 P4 P5	R1	R2 0 1 0 0	0 0 0 6	0 0 0 5
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3.PASO	P2 P3 P4 P5 P6 VRD=VR VRD P1 P2 P3 P4 P5 P6 CION	D-(D-A)+A	R2 0 0 0 0 1 1 R2 2 R2 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 6 3 14 83 14 83 0 111 0 0 6 3	0 6 0 0 2 4 4 2 2	SET. A 0 0 0 0 2 0 8 8 1.PASO A=A+(D-)	P2 P3 P4 P5 P6 P6 P1 P2 P3 P4 P5 P6		R2 0 1 0 0 0 1 1 A R2 0 0 1 1 0 0 1 1	0 0 0 6 0 0 0 0 0 0 0 0 0	0 0 0 5 1 2 84 0 0 0 0
3.PASO	P2 P3 P4 P5 P6 VRD=VR VRD=VR VRD P1 P2 P3 P4 P5 P6	D-(D-A)+A R1 D- R1	R2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 6 0 0 2 2 4 4 2 2 2 8 8 4 111 8 8 4 11 1 1 1 1 1 1 1 1 1 1	SET. A 0 0 0 0 0 0 0 0 0 0 0 1 1	P2 P3 P4 P5 P6 P1 P2 P3 P4 P5 P6	R1	R2 0 1 0 0 0 0 1 1 1 1 2 0 0 0 1 1 0 0 0 1 1 0 0 0 0	0 0 0 6 0 0 0 0 0 0 0 0 0	0 0 0 5 1 1 2 84 0 0 0 0 0
3.PASO	P2 P3 P4 P5 P6 VRD=VR VRD=VR VRD P1 P2 P3 P4 P5 P6 CION P1 P1 P2	D-(D-A)+A R1 D- R1	R2 0 0 0 0 0 1 1 R2 2 R2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 111 0 0 0 6 3 3 14	0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SET. A 0 0 0 0 0 0 0 0 0 0 1 1PASO A=A+(D-0 0 0 0	P2 P3 P4 P5 P6 P1 P2 P3 P4 P5 P6	R1	R2 0 1 1 0 0 0 0 1 1 1 A R2 0 0 0 1 1	0 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 5 1 2 84 0 0 0 0 1 1 2
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3.PASO	P2 P3 P4 P5 P6 VRD=VR VRD=VR VRD P1 P2 P3 P4 P5 P6 CION P1 P2 P3 P8	D-(D-A)+A R1 D- R1	R2 0 0 0 0 1 1 R2 2 R2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 6 0 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0	SET. A 0 0 0 0 0 2 2 0 0 0 0 0 0 0 0 0 0 0 0	P2 P3 P4 P5 P6 P6 P1 P2 P3 P4 P5 P6	R1	R2 0 1 0 0 0 1 1 0 0 1 1 1 1 1 1 1 1 1 1	0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 5 1 2 84 0 0 0 0 1 1 2
3.PASO	P2 P3 P4 P5 P6 VRD=VR VRD P1 P2 P3 P4 P5 P6 P6 P7	D-(D-A)+A R1 D- R1	R2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 6 0 0 2 4 4 2 2 2 8 84 111 8 8 4 0 0 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SET. A 0 0 0 0 0 0 0 0 0 0 0 0 0	P2 P3 P4 P5 P6 P1 P2 P3 P4 P5 P6	R1	R2 0 1 0 0 0 0 1 1 1 1 1 1 1 1 0 0 0 0 1 1 1 1 0	R3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 5 1 2 84 0 0 0 0 1 1 2
3.PASO	P2 P3 P4 P5 P6 VRD=VR VRD=VR VRD P1 P2 P3 P4 P5 P6 CION P1 P2 P3 P4 P5 P6 P7	D-(D-A)+A R1 D- R1	R2 0 0 0 0 1 1 R2 2 R2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 111 0 0 0 6 6 3 3 14	0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SET. A 0 0 0 0 0 0 0 0 0 0 0 0 0	P2 P3 P4 P5 P6 P1 P2 P3 P4 P5 P6	R1	R2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 5 1 2 84 0 0 0 0 1 1 2
3.PASO	P2 P3 P4 P5 P6 VRD=VR VRD=VR VRD P1 P2 P3 P4 P5 P6 CION P1 P2 P3 P4 P5 P6 P7	D-(D-A)+A R1 D- R1	R2 0 0 0 0 1 1 R2 2 R2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 111 0 0 0 6 6 3 3 14	0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SET. A 0 0 0 0 0 0 0 0 0 0 0 0 0	P2 P3 P4 P5 P6 P1 P2 P3 P4 P5 P6	R1	R2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 5 1 2 84 0 0 0 0 1 1 2
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3.PASO 4.ITERAC	P2 P3 P4 P5 P6 VRD=VR VRD=VR VRD P1 P1 P2 P3 P4 P5 P6	D-(D-A)+A R1 D- R1	R2 0 0 0 0 1 1 R2 2 R2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 111 0 0 0 6 6 3 3 14	0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SET. A 0 0 0 0 0 0 0 0 0 0 0 0 0	P2 P3 P4 P5 P6 P1 P2 P3 P4 P5 P6	R1	R2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 5 1 2 84 0 0 0 0 1 1 2
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3.PASO 4.ITERAC 2.PASO	P2 P3 P4 P5 P6 VRD=VR VRD=VR VRD P1 P2 P3 P4 P5 P6 CION P1 P2 P3 P4 P5 P6 VRD=VR	D-(D-A)+A R1 D- R1 R1	R2 0 0 0 1 1	0 0 111 0 0 0 6 3 3 14 R3 0 0 111 0 0 0 6 6 3 3 0 111 0 0 0 6 6 3 3 0 111 0 0 0 6 6 3 3 0 11 0 0 0 6 6 3 3 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 6 0 0 2 2 4 4 2 2 2 1 11 11 11 11 11 11 11 11 11 11 1	SET. A 0 0 0 0 0 0 2 2 0 0 0 0 0 0 0 0 0 0 0	P2 P3 P4 P5 P6 P1 P2 P3 P4 P5 P6	R1	R2 0 1 0 0 1 1 0 0 1 1 A R2 0 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 5 1 2 84 0 0 0 0 1 1 2
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3.PASO 4.ITERAC 2.PASO	P2 P3 P4 P5 P6 VRD=VR VRD=VR VRD P1 P2 P3 P4 P5 P6 CION P1 P2 P3 P4 P5 P6 VRD=VR VRD=VR VRD P1 P1 P2 P3 P4 P5 P6 P6 P7 P7 P7 P8	D-(D-A)+A R1 D R1 R1 R1	R2 0 0 0 0 1 1 R2 2 R2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 111 0 0 0 6 3 3 10 11 0 0 0 6 3 3 10 R3 10 R3 0 11 0 R3 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 6 0 0 2 4 4 2 2 8 8 4 8 4 8 8 8 8 8 8 8 8 8 8	SET. A 0 0 0 0 0 0 0 0 0 0 0 0 0	P2 P3 P4 P5 P6 P1 P2 P3 P4 P5 P6	R1	R2 0 1 0 0 1 0 0 1 1 A R2 0 1 0 0 1 1 A R2 0 1 1 0 0 1 1 A R2 0 1 1 0 0 1 1 A R2 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 5 1 1 2 84 0 0 0 0 0 1 1 2
3.PASO 4.ITERAC 2.PASO	P2 P3 P4 P5 P6 VRD=VR VRD=VR VRD P1 P2 P3 P4 P5 P6 CION P1 P2 P3 P4 P5 P6 VRD=VR VRD=VR VRD P1 P1 P2 P3 P4 P5 P6 P6 P7 P7 P7 P8	D-(D-A)+A R1 D R1 R1 R1	R2 0 0 0 0 1 1 R2 2 R2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 111 0 0 0 6 3 3 10 11 0 0 0 6 3 3 10 R3 10 R3 0 11 0 R3 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 6 0 0 2 4 4 2 2 8 8 4 8 4 8 8 8 8 8 8 8 8 8 8	SET. A 0 0 0 0 0 0 0 0 0 0 0 0 0	P2 P3 P4 P5 P6 P1 P2 P3 P4 P5 P6	R1	R2 0 1 0 0 1 0 0 1 1 A R2 0 1 0 0 1 1 A R2 0 1 1 0 0 1 1 A R2 0 1 1 0 0 1 1 A R2 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 5 1 1 2 84 0 0 0 0 0 1 1 2
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3.PASO 4.ITERAC 2.PASO	P1 P2 P3 P4 P5 P6 P6 PF P6 PF P6 PF PF P6 PF	D-(D-A)+A R1 D R1 R1 R1	R2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R3 0 111 0 0 0 6 3 3 10 11 0 0 6 6 3 3 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SET. A 0 0 0 0 0 0 0 0 0 0 0 0 0	P2 P3 P4 P5 P6 P1 P2 P3 P4 P5 P6 P1 P2 P3 P4 P5 P6	R1	R2 0 1 0 0 0 0 1 1 1 1 A R2 0 0 1 1 0 0 0 1 1 1 A R2 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0	R3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 5 1 1 2 84 0 0 0 0 0 0 1 1 2 2
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R1	.ITERACI	οN			D-A						1.PASO				Α			
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VAD												P6						
VAD	PASO	VPD=VP	2Π-(Π-Δ)+Δ															
PASO Paso D	.FMJU				D2		D3		D/I									
R1 R2 R3 R4 P1 0 0 0 0 0 0 P2 0 0 0 0 P3 0 0 0 P4 0 0 0 P5 0 0 0 P5 0 0 0 P5 0 0 0 P6 P2 0 0 0 P6 P7 P7 P7 P7 P7 P7 P7		VND	101		nz.	10		11		12								
R1 R2 R3 R4 P1 0 0 0 0 0 0 P2 0 0 0 0 P3 0 0 0 P4 0 0 0 0 P5 0 0 0 P5 0 0 0 P6 P2 0 0 0 P6 P7 P1 P1 P1 P1 P1 P1 P1	DACO		-															
P1	UCAY.				B2		B3		B4				B1			B3		B4
P2		P1				n		0		0		P1		n			Ω	1.14
P3																		
P4																		
P5												D4						
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TERACION																		
PASO VRD=VRD-(D-A)+A VRD R1 R2 R3 R4 R4 R1 R1 R2 R3 R4 R1 R1 R2 R3 R4 R4 R1 R1 R2 R3 R3 R4 R1 R1 R3 R4 R1 R1 R3 R3 R4 R1 R3 R3 R4 R1 R1 R3 R3 R4 R1 R3 R3 R4 R1 R3 R3 R4 R1 R3 R3 R4 R3 R4 R1 R3 R3 R4 R3 R4 R3 R3 R4 R3 R3 R4 R3 R4 R3 R3 R3 R4 R3 R3 R3 R4 R3	ITERACI	ON			D-A						10490				٥			
P1 0 0 0 0 0 0 P1 0 0 0 0 P2 0 0 0 P2 0 0 0 0 P3 0 0 0 P4 0 0 0 P5 0 0 0 P6 2 3 4 P5 P6 P6 P6 P7			D1				D2		D4		I.PASU		Dt			D2		D4
P2		D1	- Ini		n∠	- 0		- 0				D1	- Ini	- 0			-	
P3																		
P4 0 0 0 0 0 0 P4 0 0 0 0 P5 P5 0 0 0 0 P5 P6 P6 P6 P7												D2						
PS 0 0 0 0 0 0 PS 0 0 0 0 PS 0 0 0 0																		_
PASO VRD=VRD-(D-A)+A VRD R1 R2 R3 R4 R1 R3 R3 R3 R4 R1 R3 R3 R3 R4 R1 R3 R3 R3 R3 R4 R3												DE DE						
VRD R1 R2 R3 R4				1														
VRD R1 R2 R3 R4	DASO	VDD-VD	D-(D-4)+4															
PASO D A B1 R2 R3 R4 R1 R3 R4 R1 R3 R4 R1 R3 R3 R4 R1 R3 R4 R3 R4 R1 R3 R4 R3 R3 R4 R3 R3 R4 R3 R4 R3 R3 R3 R4 R3 R3 R3 R3 R3 R4 R3	.rmJO				D2		D3		D/I									
R1 R2 R3 R4 R1 R2 R3 R4 P1 0 0 0 0 P1 0 0 0 P2 0 0 0 0 P2 0 0 0 P3 0 0 0 0 P3 0 0 0 P4 0 0 0 0 P4 0 0 0 P5 0 0 0 0 P5 0 0 0		VHD			nz.	10		13		14								
R1 R2 R3 R4 R1 R2 R3 R4 P1 0 0 0 0 P1 0 0 0 P2 0 0 0 0 P2 0 0 0 P3 0 0 0 0 P3 0 0 0 P4 0 0 0 0 P4 0 0 0 P5 0 0 0 0 P5 0 0 0	PASO		П												Δ			
P1 0	450				B2		B3		R4				B1			B3		B4
P2 0		P1	1			n	_	Ω	_	0		P1		n			Ω	1.1.7
P3 0 0 0 0 0 P3 0 0 0 P4 P5 0 0 0 P5 P5 0 0 0 0 P5																		
P4 0 0 0 0 0 P4 0 0 0 P5 P5 0 0 0																		
P5 0 0 0 0 P5 0 0 0		D4										D4						

- Considere la siguiente situación
 a. Calcula la matriz de necesidad y determinar en qué estado se encuentra el sistema
 - b. Si el proceso P6 ahora requiere más recursos (0,0,1,0,0,1) vuelva a calcula el estado del sistema

			C-A			
	R1	R2	R3	R4	R5	R6
P1	0	1	0	0	0	0
P2	0	0	0	1	1	1
Р3	1	0	0	0	0	0
P4	0	1	0	0	0	1
P5	0	0	0	0	0	1
P6	0	0	1	0	0	1

		Α				
	R1	R2	R3	R4	R5	R6
P1	1	1	0	0	0	0
P2	1	0	1	0	0	0
P3	0	0	0	0	0	1
P4	0	0	0	0	1	0
P5	0	0	1	1	1	0
P6	0	1	0	0	0	0

		ı	₹		
R1	R2	R3	R4	R5	R6
2	2	3	2	2	2

		Г)		
R1	R2	R3	R4	R5	R6
0	0	1	1	0	1

		D-A											Α				
		R1	R2	R3	F		R5	R6				R1	R2	R3	R4		
	P1		0	_1_	0	(0 0			P1		1	_1	0	0	0
	P2		0	0	0		1	1 1			P2		1	0	1	0	0
	P3 P4		0	0	0	(0 0			P3 P4		0	0	0	0	0
	P5		0	- 1	- 0	- (0 1			P5		0	0	1	1	
	P6		ö	0	- 1			0 1			P6		0	1	ö	ö	ö
	10		9	- 0	- '		4	0			10		0	-1-	- 0	- 0	
			B									D					
		R1	R2	R3	F	13	R5	R6			R1	R2	R3	R4	R5	R6	
			2	2	3	2	2	2 2				0	0	1	1	0	1
		D															
		R1	R2	R3	F		R5	R6									
	P1 P2		1-	2	0			0 0									
	P3		+	0	ö	(1	1 1									
	P4		d	1	Ö	(1 1									
	P5		ö	ö	1		1	1 -									
	P6		ŏ	1	- 1			ol 1									
						()										
11750400	061	D.A								10400							
1.ITERACIO	NIC	D-A R1	R2	R3	-	14	R5	R6		1.PASO		R1	A R2	R3	R4	R5	R6
	P1	Hn:	0 82	1 H3	- 0	14 (0 0	-	M	P1	Hul	1 112	1 113	0 84	0 85	0 86
	P2		0	- 1	0		1	1 1			P2	-	1	ö	1	0	0
	P3		1	Ö	Ö	(d d			P3		Ö	ö	ö	0	Ö
	P4		Ö	1	ŏ			Ö i			P4		Ö	ŏ	ŏ	ŏ	1
	P5		0	0	0	()	0 1			P5		0	0	1	1	1
	P6		0	0	1	()	0 1			P6		0	1	0	0	0
0.000	ACTUS	740.000	LIES	UDD (C. :) . A												
2.PASO	ACTUAL	ZASVRD		VRD-(D-A	J+A												
		R1	D R2	R3	F	04	R5	R6									
		101	0 82	0 83	2		2	1 1									
			9				-										
3.PASO		D											Α				
0		R1	R2	R3	F		R5	R6				R1	R2	R3	R4	R5	R6
	P1		1	2	0	(0 0			P1		1	1	0	0	0
	P2		1	0	1		1	1 1			P2		1	0	1	0	0
	P3		1	0	0	(0 1			P3		0	0	0	0	0
	P4 P5		0	1	0			1 1			P4 P5		0	0	0	0	1
	P6		0	0	0	(0 1			P6		0	0	0	0	0
	110	-	9	- '	- 1	,	4	9			11.0		- 0	-1	- 0	9	
2. ITERACIO	ON																
		D-A							1.PASO			A R2					
	D1	R1 0	R2	R3	R4	R5	R6	n		P1	R1	1 HZ	R3 0		R5	R6 0	
	P1 P2 P3	Ö			Ö	1	1	1		P2		1	0 1	1		1 1	
	P3	1			0	0	0	0		P1 P2 P3 P4			0 0) 1	
	P4 P5	0			0	0	0	0		P5			0 0			1 0	
	P6	Ö			1	Ö	ō	1		P6			1 0		Ċ		
2.0400	ACTUALIZ	AC UDD	UDD-UDD	(D. A). A													
2.PASO	ACTUALIZ	-J VHU	VRD=VRD	/-(U-M)+A													
		R1	R2	R3	R4	R5	R6										
		1		0 :	3	2	1	_1									
3.PASO		D										А					
	D1	R1 1	R2	R3	R4	R5	R6	0		D1	R1	R2			R5	R6	<u></u>
	P1 P2	0			0	0	0	0		P1 P2		0	0 0		(
	P3	1		D I	0	0	0	1		P3		0	0 0	0	(1	
	P4 P5	0			0	0	0	1		P4 P5		0	0 0		(1 0	<u> </u>
	P6	0			1	0	0	1		P6			1 0		(
3.ITERACIC	ON																
		D-A			1				1.PASO			Α					
	P1	R1 0	R2	R3	R4	R5	R6	0		P1	R1	R2	R3 1 0		R5 (R6	<u> </u>
	P2 P3	0			0	0	0	0		P2		o	0 0		(
	P3	1	ı	0	0	0	0	0		P2 P3 P4		1	0 0	0	(1	
	P4+F87 P5	0			0	0	0	1		P5		0	0 0			1 0	
	P6	0		0	1	0	0	1		P5 P6		0	1 0		(
																	_
2.PASO	ACTUALIZ	45 VRD	VRD=VRD	J-(LJ-A)+A							1						
		R1	R2	R3	R4	R5	R6										
		1			3	2	1	2									
3.PASO		D							-			A					
		R1	R2	R3	R4	R5	R6				R1	R2			R5	R6	
	P1	1 0			0	0	0	0		P1		1	1 0 0 0		(
	P2 P3	0			0	0	0	0		P2 P3			0 0		(
	P4	ŏ		1	0	0	1	1		P4		0	0 0	0		1 0	
	P5 P6	0			1	0	0	1		P5 P6			0 0		(

4.ITERACIO	IN	D-A							1.PASO			А					
		R1	R2	R3	R4	R5	R6				R1	R2	R3	R4	R5	R6	
	P1		D		0	0	0	0		P1		1				0	0
	P2				0	0	0	0		P2						0	0
	P3 P4+F87				0	0	0	0		P4					0	1	0
	P5				0	0	0	0		P1 P2 P3 P4 P5						o	0
	P6			0	1	Ö	Ö	1		P6		0	1			Ö	1
.PASO	ACTUALIZ:	<u>AS VRD</u>	VRD=VRD)-(D-A)+A													
		D4	D	D0	D4	DE	Do.										
		R1	R2	R3	R4 3	R5	R6	2									
			' 	4	٥	۷	-1	- 2									
.PASO		D										A					
		R1	R2	R3	R4	R5	R6				R1	R2	R3	R4	R5	R6	
	P1		1 :		0	0	0	0		P1 P2 P3 P4 P5 P6		1	1	0	0	0	0
	P2 P3				0	0	0	0		P2						0	0
					0	0	0	0		P3						0	0
	P4				0	0	1	1		P4					0	1	0
	P5 P6				0	0	0	0		DE DE				0	0	0	0
	ru		J .	υĮ	ol .	U]	U]	U U		FO		0	u	oj .	U]	oj .	U
.ITERACIO	N																
		D-A							1.PASO			Α					
		R1	R2	R3	R4	R5	R6				R1	R2	R3	R4	R5	R6	
	P1		-		0	0	0	0		P1		1				0	0
	P2 P3				0	0	0	0	-	P2						0	0
	P3 P4+F87		0		0	0	0	0	-	P3		0			0	0	0
	P4+F87				0	0	0	0		P5						0	0
	P6				0	0	0	0		P1 P2 P3 P4 P5 P6						0	0
				-	-	-1	-			, -		-	-	-	-	-	
.PASO	ACTUALIZA	AS VRD	VRD=VRD	D-(D-A)+A													
			D														
		R1	R2	R3	R4	R5	R6										
			1	1	3	2	2	2									
PASO .		D	DO	DO.	D4	DE	P0				Di	A	DO.	D4	DE	DC	
		R1	R2	R3	R4	R5	R6			D1	R1	R2	R3	R4	R5	R6	0
-	P1	-	0	2	0	0	0	0		P1 P2 P3 P4 P5 P6		0	0	0		0	0
	P2 P3				0	0	0	0		D3				0		0	0
	P4				ŏ	Ö	Ö	Ö		P4						Ö	Ö
	P5				ō	ō	Ö	1		P5						Ö	Ō
	P6				0	0	0	0		P6						0	0
6.ITERAC	ION	Π-A							1	PASO			Δ				
6.ITERAC		D-A R1	R2	R3	R4		5 0	6	1.	PASO F	21		A R2	R3	R4	R5	R6
6.ITERAC	P1			R3		0			1.	F	P1 P2				R4 0		
6.ITERAC	P1 P2 P3	R1	0 0	1	0	0	0	6 0	1.	F F	² 2	R1 1 0	R2 2 0 0		0	0	0
6.ITERAC	P1 P2	R1	0 0 0	0 0 0	0	0	0	6 0	1.	F F F	92 93 94	R1 1 0 0 0 0	R2 2 0 0 0 0		0 0 0	0 0	0
6.ITERAC	P1 P2 P3 P4+F87	R1	0 0 0 0	1 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	1.	F F F F	P2 P3 P4 P5	R1 1 0 0 0 0 0 0	R2 2 0 0 0		0 0 0 0	0 0	0 0
6.ITERAC	P1 P2 P3 P4+F87	R1	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	6 0 0	1.	F F F F	92 93 94	R1 1 0 0 0 0	R2 2 0 0 0 0		0 0 0	0 0	0 0
	P1 P2 P3 P4+F87 P5 P6	R1	0 0 0 0 0	1 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	1.	F F F F	P2 P3 P4 P5	R1 1 0 0 0 0 0 0	R2 2 0 0 0		0 0 0 0	0 0	0 0
	P1 P2 P3 P4+F87 P5 P6	R1	0 0 0 0 0 0	1 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	1.	F F F F	P2 P3 P4 P5	R1 1 0 0 0 0 0 0	R2 2 0 0 0		0 0 0 0	0 0	0 0
	P1 P2 P3 P4+F87 P5 P6	R1	0 0 0 0 0 0 0 VRD=	1 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	6 0 0 0 0	1.	F F F F	P2 P3 P4 P5	R1 1 0 0 0 0 0 0	R2 2 0 0 0		0 0 0 0	0 0	0 0
	P1 P2 P3 P4+F87 P5 P6	R1	0 0 0 0 0 0 0 VRD=	1 0 0 0 0 0 0 VRD-(D-A	0 0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0 0	1.	F F F F	P2 P3 P4 P5	R1 1 0 0 0 0 0 0	R2 2 0 0 0		0 0 0 0	0 0	0 0
	P1 P2 P3 P4+F87 P5 P6	R1	0 0 0 0 0 0 0 VRD=	1 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	6 0 0 0 0	1.	F F F F	P2 P3 P4 P5	R1 1 0 0 0 0 0 0	R2 2 0 0 0		0 0 0 0	0 0	0 0
2.PASO	P1 P2 P3 P4+F87 P5 P6	R1	0 0 0 0 0 0 0 VRD=	1 0 0 0 0 0 0 VRD-(D-A	0 0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0 0	1.	F F F F	P2 P3 P4 P5	R1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	R2 2 0 0 0		0 0 0 0	0 0	0 0
2.PASO	P1 P2 P3 P4+F87 P5 P6	R1 P1 LIZAS VRD	0 0 0 0 0 0 0 VRD=	1 0 0 0 0 0 0 VRD-(D-A	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	1.	F F F F	P2 P3 P4 P5	R1 1 0 0 0 0 0 0 0 0	R2 2 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
2.PASO	P1 P2 P3 P4+F87 P5 P6	R1 LIZAS VRD	0 0 0 0 0 0 0 0 VRD= D R2 2	1 0 0 0 0 0 0 VRD-(D-A	0 0 0 0 0 0 0 0 0 H+A	0 0 0 0 0 0 0 0 2 8:	0 0 0 0 0 0	0 0 0 0 0 0 0	1.	F F F F F F F F F F F F F F F F F F F	72 73 74 75 76	R1 1 0 0 0 0 0 0 0 0	P2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2.PASO	P1 P2 P3 P4+F87 P5 P6 ACTUAL	R1 LIZAS VRD	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 VRD-(D-A R3 2 R3	0 0 0 0 0 0 1+A 84 3	0 0 0 0 0 0 0 0 8 8	0 0 0 0 0 0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.	F F F F F F F F F F F F F F F F F F F	72 73 74 75 76	R1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A A B2 B2 B2 B2 B2 B2 B2 B2 B2 B2 B2 B2 B2	R3	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0
2.PASO	P1 P2 P3 P4+F87 P5 P6 ACTUAL	R1 LIZAS VRD	0 0 0 0 0 0 0 0 0 0 0 82 2	1 0 0 0 0 0 0 VRD-(D-A R3 2	0 0 0 0 0 0 0 0 0 84 3	0 0 0 0 0 0 0 0 2 8:	0 0 0 0 0 0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.	F F F F F F F F F F F F F F F F F F F	72 73 74 75 76	R1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A A A R2	R3	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0
2.PASO	P1 P2 P3 P4+F87 P6 ACTUAL P1 P2 P3 P4 P4 P4	R1 LIZAS VRD	0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1+A 84 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.	F F F F F F F F F F F F F F F F F F F	P1 P2 P3	R1	A A R2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R3	R4 00 00 00 00 00 00 00 00 00 00	RS 0	0 0 0 0 0 0 0 0
2.PASO	P1 P2 P3 P4 P5 P6 P5 P6 P5 P6 P5 P6 P6 P5 P6 P6 P7	R1 LIZAS VRD	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 84 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.	F F F F F F F F F F F F F F F F F F F	P2	R1	A A R2 0 0 0 0 0 0 0 0 0 0 0 0 0	R3	0 0 0 0 0 0 0 0 0 0	RS 0	0 0 0 0 0 0 0 0
2.PASO	P1 P2 P3 P4+F87 P6 ACTUAL P1 P2 P3 P4	R1 LIZAS VRD	0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1+A 84 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.	F F F F F F F F F F F F F F F F F F F	P1 P2 P3	R1	A A R2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R3	R4 00 00 00 00 00 00 00 00 00 00	RS 0	0 0 0 0 0 0 0 0
2.PASO	P1 P2 P3 P4 P5 P6 P5 P6 P5 P6 P5 P6 P6 P5 P6 P6 P7	R1 LIZAS VRD	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 84 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.	F F F F F F F F F F F F F F F F F F F	P2	R1	A A R2 0 0 0 0 0 0 0 0 0 0 0 0 0	R3	0 0 0 0 0 0 0 0 0 0	RS 0	0 0 0 0 0 0 0 0
2.PASO	P1 P2 P3 P4+F87 P5 P6 ACTUAL P1 P2 P3 P4 P5 P6	R1 F1 R1 R1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.	F F F F F F F F F F F F F F F F F F F	P2	R1	A A R2 0 0 0 0 0 0 0 0 0 0 0 0 0	R3	0 0 0 0 0 0 0 0 0 0	RS 0	0 0 0 0 0 0 0 0
2.PASO	P1 P2 P3 P4+F87 P5 P6 ACTUAL P1 P2 P3 P4 P5 P6	R1 F1 R1 R1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.	F F F F F F F F F F F F F F F F F F F	P2	R1	A A R2 0 0 0 0 0 0 0 0 0 0 0 0 0	R3	0 0 0 0 0 0 0 0 0 0	RS 0	0 0 0 0 0 0 0 0
2.PASO	P1 P2 P3 P4+F67 P5 P6 ACTUAL P1 P2 P3 P4 P5 P6 P6 P6 P6 P6 P7 P5 P6 P6 P7	R1 F1 F1 D R1 D R1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 84 3 84 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		F F F F F F F F F F F F F F F F F F F	P2	R1	A A R2 0 0 0 0 0 0 0 0 0 0 0 0 0	R3	0 0 0 0 0 0 0 0 0 0	RS 0	0 0 0 0 0 0 0 0
2.PASO	P1 P2 P3 P4+F67 P5 P6 ACTUAL P1 P2 P3 P4 P5 P6 P6 P6 P6 P6 P7 P5 P6 P6 P7	R1 R1 R1 D R1 D R1 D rocesoP6a	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 84 3 84 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		F F F F F F F F F F F F F F F F F F F	P2	R1	R2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R3	0 0 0 0 0 0 0 0 0 0	RS 0	0 0 0 0 0 0 0 0
2.PASO	P1 P2 P3 P4+F67 P5 P6 ACTUAL P1 P2 P3 P4 P5 P6 P6 P6 P6 P6 P7 P5 P6 P6 P7	R1 TO R1 D R1 D R1 D R1 D R1 D R1 D R1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 2 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		F F F F F F F F F F F F F F F F F F F	P2	R1	A A R2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R3	R4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0
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Fig.	LITERACIO	ON	D-A						1.	.PASO			A				
FRACO									ρ		D1	R1	R2				
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ASSO ACTUALIZAS VID. VIDVIDCCAA. ASSO BETTALIZAS VID. VIDVIDCCAA. ASSO BETTALIZAS VID. VIDVIDCAAA. ASSO BETTALIZAS VID. VIDVIDCAA. ASSO BET		P3		1					1		P3						
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FIGURE 1						۷	U	0 2			P6		υĮ	1	U	U	U
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O FIT FIZ FIZ FIX FI				0	0	2	2	1 .	1								
Property	.PASO			DO.	D2	D4	DE	DC				D4		D2	D4	DE	De
PASO		P1	BI	1	2							ВІ	1	1	0	0	0
PASO		P2					1		1								
TERACON		P4		Ö	1	0	0	1 -	1		P4		0		D	0	1
TERACION Dec Part Part		P5							1								
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CA R R R R R R R R R	TERACI	ION															
P1				D2	D3	DA	D5	DE	1.	PASO.		D1		D3	DA	DS	DE
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Fig. Column Col		P4		0	1	0	0	0 .	1		P4		0		0	0	1
ASO ACTUALZAS VPD VPD-VPD-D-AHA P1 R2 R3 R4 R5 R6 P3 P1 R1 R2 R3 R4 R5 R6 P3 P1 R1 R2 R3 R4 R5 R6 P4 P1 R1 R2 R3 R4 R5 R6 P5 R5 R6 P6 R5 R6 P7 R1 R2 R3 R4 R5 R6 P7 R1 R2 R3 R4 R5 R6 P8 R5 R6 P8 R5 R6 P9 R1 R2 R3 R4 R5 R6 P9 R1 R2 R3 R4 R5 R6 P9 R1 R2 R3 R4 R5 R6 P8 R5 R6 R6 P1 R1 R2 R3 R4 R5 R6 P1 R1 R3 R4 R5		P5 P6									P5 P6						
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ASO 1		P2 P3 P4+F87 P5 P6	(0 1 0 0 1 0 1 0 0 1 0 0	0 0 0 0 0	0 0 0	0 0 0 0	0 0 1 0	1.PASO	P2 P3 P4 P5	R1	R2 1 0 1 0	1 0 0 0		0 0 0 1 0 0	0 0 1 0	
R1		P2 P3 P4+F87 P5 P6	() () () () ()	0 1 0 0 1 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 2 D-A)+A	0 0 0 0 0	0 0 0 0 0 0 0	0 0 1 0 2	1.PASO	P2 P3 P4 P5	R1	R2 1 0 1 0	1 0 0 0		0 0 0 1 0 0	0 0 1 0	
P1		P2 P3 P4+F87 P5 P6	() () () () ()	0 1 0 0 1 0 0 1 0 0 0 0 VRD=VRD-(0 0 0 0 0 2 D-A)+A	0 0 0 0 0	0 0 0 0 0 0 0	0 0 1 0 2	1.PASO	P2 P3 P4 P5	R1	R2 1 0 1 0	1 0 0 0		0 0 0 1 0 0	0 0 1 0	
P2		P2 P3 P4+F87 P5 P6 ACTUALIZ	AS VRD	0 1 0 0 1 0 0 1 0 0 0 0 0 0 VRD=VRD-(D R2	0 0 0 0 0 2 2 D-A)+A	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 1 0 2	1.PASO	P2 P3 P4 P5		R2 1 0 1 0 0 0	1 0 0 0 0 0 0 0 0 1 1		0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	
FRACION D-A	PASO PASO	P2 P3 P4+F87 P5 P6 ACTUALIZ	AS VRD	0 1 0 0 1 0 0 1 0 0 0 0 0 0 VRD=VRD-(D R2 1 0	0 0 0 0 0 2 2 D-A)+A	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 1 0 2 2 2	1.PASO	P2 P3 P4 P5 P6		R2 1 0 1 0 0 0	1 0 0 0 0 0 1	D	0 0 0 1 0 0	0 0 1 0 0	
ERACION D-A 1	PASO PASO	P2 P3 P4+F87 P5 P6 ACTUALIZ	AS VRD	0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 4 R5	0 0 0 0 0 0 0 1	0 0 1 1 0 2 2 2 2 0 0 0 0	1.PASO	P2 P3 P4 P5 P6		R2 1 0 0 1 0 0 0 0 0	1 0 0 0 0 0 1	D	0 0 0 1 0 0	0 0 1 0 0 0	
ERACION D-A R1 R2 R3 R4 R5 R6 P1 0 1 0 0 0 0 0 0 0 P2 0 0 0 0 0 0 P3 0 0 0 0 0 0 0 0 P3 0 0 0 0 0 0 0 P3 P6 0 0 0 2 0 0 0 0 0 P5 0 0 0 0 0 0 0 0 P6 0 0 0 0 0 0 0 0 0 0	PASO PASO	P2 P3 P4+F87 P5 P6 ACTUALIZ	AS VRD R1 D R1	0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 2 2 D-A)+A R3 R4 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 1	0 0 1 1 0 2 2 2 2 0 0 0 0	1.PASO	P2 P3 P4 P5 P6 P6		R2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R4	R5 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R6 0 0	
R1 R2 R3 R4 R5 R6 P1 1 1 1 1 0 0 0 0 0 0 P2 P4+F87 0 1 0 0 0 0 0 0 0 0 P5 0 0 0 0 0 0 0 0 0 0	PASO PASO	P2 P3 P4+F87 P5 P6 ACTUALIZ P1 P2 P3 P4 P5	AS VRD R1 D R1	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 1 86 0 0	0 0 1 0 0 0 0 0 1 1 1	1.PASO	P2 P3 P4 P5 P6 P1 P2 P3 P4 P5		R2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R4 R4 D C C C C C C C C C C C C C C C C C C	R5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
R1 R2 R3 R4 R5 R6 P1 1 1 1 1 0 0 0 0 0 0 P2 P4+F87 0 1 0 0 0 0 0 0 0 0 P5 0 0 0 0 0 0 0 0 0 0	PASO PASO	P2 P3 P4+F87 P5 P6 ACTUALIZ P1 P2 P3 P4 P5	AS VRD R1 D R1	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 1 86 0 0	0 0 1 0 0 0 0 0 1 1 1	1.PASO	P2 P3 P4 P5 P6 P1 P2 P3 P4 P5		R2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R4 R4 D C C C C C C C C C C C C C C C C C C	R5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
P2	PASO PASO	P2 P3 P4+F87 P5 P6 ACTUALIZ P1 P2 P3 P4 P5 P6	AS VRD R1 C C C C C C C C C C C C C C C C C C	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 1 86 0 0	0 0 1 0 0 0 0 0 1 1 1		P2 P3 P4 P5 P6 P1 P2 P3 P4 P5		R2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R4 R4 D C C C C C C C C C C C C C C C C C C	R5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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P5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ASO ASO	P2 P3 P4+F87 P5 P6 ACTUALIZ P1 P2 P3 P4 P5 P6	(0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 1 2 2		P2 P3 P4 P5 P6 P6 P1 P2 P3 P4 P5 P6	R1	R2 R2 1 0 0 0 0 0 0 0 0 0	R3 1 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R4	R5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
ASO ACTUALIZAS VRD VRD=VRD=(D-A)+A R1 R2 R3 R4 R5 R6 R1 R1 R2 R3 R4 R5 R6 R1 R2 R3 R4 R5 R6 R1 R2 R3 R4 R5 R6 P1 1 1 2 0 0 0 0 0 P1 1 1 0 0 0 0 0 P3 0 0 0 0 0 0 P2 0 0 0 0 0 P3 0 0 0 0 0 0 P3 0 0 0 0 0 P4 0 1 0 0 1 1 P4 0 0 0 0 0 0 P5 0 0 0 0 0 0 0 0 P5 0 0 0 0 0 0 0 0 0 P6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PASO PASO FERACIÓ	P2 P3 P4+F87 P5 P6 ACTUALIZ P1 P2 P3 P4 P5 P6	D-A R1 ((((((((((((((((((0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 1 2 2		P2 P3 P4 P5 P6 P1 P2 P3 P4 P5 P6	R1	R2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R3 1 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	84 R4	R5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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ASO R1 R2 R3 R4 R5 R6	PASO PASO PASO PASO PASO PASO PASO PASO	P2 P3 P4+F87 P5 P6 ACTUALIZ P1 P1 P2 P3 P4 P5 P6 P6 P1 P2 P3 P5 P6	C	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 2 2 2 2 2 0 0 0 0 1 1 2		P2 P3 P4 P5 P6 P6 P1 P2 P3 P4 P5 P6 P6	R1	R2 R2 1 0 0 0 0 0 0 0 0 0	R3 1 0 0 0 0 1 1 1 R3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	B4	R5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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R1 R2 R3 R4 R5 R6 R1 R2 R3 R4 R5 R6 P1 1 1 2 0	PASO PASO PASO PASO PASO PASO PASO PASO	P2 P3 P4+F87 P5 P6 ACTUALIZ P1 P1 P2 P3 P4 P5 P6 P6 P1 P2 P3 P5 P6	AS VRD D-A R1 () () () () () () () () () (0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	B3 R3 R4 R3 R4 R3 R3 R4 R4 R3 R4 R4 R3 R4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 2 2 2 2 2 0 0 0 0 1 1 2 2		P2 P3 P4 P5 P6 P6 P1 P2 P3 P4 P5 P6 P6	R1	R2 R2 1 0 0 0 0 0 0 0 0 0	R3 1 0 0 0 0 1 1 1 R3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	B4	R5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
P1 1 2 0	PASO ITERACIÓ PASO	P2 P3 P4+F87 P5 P6 ACTUALIZ P1 P1 P2 P3 P4 P5 P6 P6 P1 P2 P3 P5 P6	C C C C C C C C C C	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	B3 R3 R4 R3 R4 R3 R3 R4 R4 R3 R4 R4 R3 R4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 2 2 2 2 2 0 0 0 0 1 1 2 2		P2 P3 P4 P5 P6 P6 P1 P2 P3 P4 P5 P6 P6	R1	R2 1 0 0 0 0 0 0 0 0 0	R3 1 0 0 0 0 1 1 1 R3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	B4	R5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
P4 0 1 0 0 1 1 0 P4 0 0 0 0 1 0 P5 0 0 0 0 0 0 0	PASO ITERACIÓ PASO	P2 P3 P4+F87 P5 P6 ACTUALIZ P1 P1 P2 P3 P4 P5 P6 P6 P1 P2 P3 P5 P6	D-A R1 () () () () () () () () () (0) 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 2 2 2 2 2 0 0 0 0 1 1 1 2 2		P2 P3 P4 P5 P6 P6 P1 P2 P3 P4 P5 P6 P6	R1	R2 R2 1 0 0 0 0 0 0 0 0 0	R3 1 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R4	R5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
P5 0 0 0 0 0 1 P5 0 0 0 0 0 0	PASO	P2 P3 P4+F87 P5 P6 ACTUALIZ P1 P2 P3 P4 P5 P6 N P1 P2 P3 P4 P5 P6 ACTUALIZ	D-A R1 () () () () () () () () () (0) 1 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0	B3 R3 R4 R3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 2 2 2 2 2 0 0 0 0 1 1 2 2		P1 P2 P3 P4 P5 P6 P6 P1 P2 P3 P4 P5 P6 P6	R1	R2 R2 1 0 0 0 0 0 0 0 0 0	R3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	B4	R5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
P6 0 0 0 0 0 0 P6 0 0 0 0	PASO ITERACIÓ PASO PASO	P2 P3 P4+F87 P5 P6 ACTUALIZ P1 P2 P3 P4 P5 P6 P6 P1 P2 P3 P4+F87 P5 P6 ACTUALIZ	D-A R1 ((((((((((((((((((0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 2 2 2 2 2 0 0 0 0 0 1 1 2 2		P2 P3 P4 P5 P6 P1 P2 P3 P4 P5 P6 P1 P2 P3 P4 P5 P6	R1	R2 R2 1 0 0 0 0 0 0 0 0 0	R3 1 0 0 0 0 1 1 R3 1 0 0 0 0 0 1 1 R3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R4	R5 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	R6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	PASO PASO PASO PASO PASO PASO PASO PASO	P2 P3 P4+F87 P5 P6 ACTUALIZ P1 P1 P2 P3 P4 P5 P6 P6 P1 P2 P3 P4+F87 P6 ACTUALIZ	D-A R1 ((((((((((((((((((0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R3 R4 R3 R6 R3 R6 R3 R6 R3 R6 R3 R7 R3 R7 R6 R6 R7 R8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 2 2 2 2 2 0 0 0 0 1 1 2 2		P1 P2 P3 P4 P5 P6 P6 P1 P2 P3 P4 P5 P6 P6 P5 P6 P5 P6 P5 P6 P5 P6 P7	R1	R2 R2 1 0 0 0 0 0 0 0 0 0	R3 1 0 0 0 0 0 1 1 R3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	R5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

R1 R2 R3 R4 R5 R6 P1	5.ITERACI	T	D-A						1.PASO			Α				
PI				P2	D3	D4	DS.	D6	I.I H30		D1		D3	D4	P5	D6
P2		D1								D1		1	1			
P3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0												o l	n n			
PAF87 0 1 0 0 0 0 0 1 PAF87 0 0 1 0 0 0 1 PAF87 0 0 0 0 0 0 0 0 0 0 PAF8 0 0 0 0 0 0 0 0 0 0 0 PAF8 0 0 0 0 0 0 0 0 0 0 0 0 PAF8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																
PS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								-		D4			1			
P6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								1					n			n n
2 PASO ACTUALIZAS VRD VFD=VRD-(D-A)+A R1 R2 R3 R4 R5 R6 P1 R1 R2 R3 R4 R5 R6 R1 R2 R3 R4 R5 R6 R1 R1 R2 R3 R4 R5 R6 R1 R																
3.PASO D	0.0400				-		,			10						-
3.PASO D	Z.PASU	ACTUALIZ		D												
3.PASO R1 R2 R3 R4 R5 R6 P1 1 2 0 0 0 0 P2 0 0 0 0 0 P3 0 0 0 0 0 P4 0 0 0 0 0 P5 0 0 0 0 0 P6 0 0 0 0 0 P7 0 0 0 0 P8 0 0 0 0 P9 0 0 0 0 P9 0 0 0 0 P9 0 0 0 P9 0 0 0 P1 1 1 1 0 P2 0 0 0 P3 0 0 0 P4 0 0 0 P5 0 0 0 0 P6 0 0 0 P7 0 0 0 P8 0 0 0 P9 0 0 P9 0 0 P9 0 0 P9 0 0 P9 P9			R1	R2	R3	R4	R5	R6								
R1				1	1	3	2 2	2								
P1	3.PASO															
P2		L.	R1								R1	R2				
P3												1	-			
P4																
P5																
6.ITERACION D-A																
6.ITERACION D-A																
D-A		P6		0 1	0	0	0 (0		P6		0	0	이	0	0
P2				R2	R3	R4	R5	R6	1.PASO		R1		R3	R4	R5	R6
P3		P1		0	1	0	0 ()		P1		1	2	0	0	0
P4+F87		P2		0 (0	0	0 ()				0	0	0	0	0
P5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0 (0	0	0 (0	0	0		0
P6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					0		0 (0	0			
2.PASO ACTUALIZAS VRD VRD=VRD=(D-A)+A D																
R1 R2 R3 R4 R5 R6 R1 R1 R3 R4 R5 R5 R6 R5		P6		0 (0	0	0 (P6		0	0	0	0	0
R1 R2 R3 R4 R5 R6 2 2 3 3 2 2 2 2 3 3 P4 R5 R6 R1 R2 R3 R4 R5 R6 P1 0 0 0 0 0 0 0 0 P1 0 0 0 0 0 0 0 0 0	2.PASO	ACTUALIZ	ASVRD	VRD=VRD)-(D-A)+A											
3.PASO D A B B B B B B B B B B B B B B B B B B																
3.PASO																
R1				2 1	2	3	2 2	2 :								
P1 0	3.PASO															
P2 0		-								-	R1					
P3 0 0 0 0 0 0 0 P3 0 0 0 0 0 P4 0 0 0 0 0 0 P5 0 0 0 0 0 0 0 0 0 0 0 0																
P4 0 0 0 0 0 0 0 P4 0 0 0 0 0 P5 0 0 0 0 0 0 0 0 0 0 0 0 0																
P5 0 0 0 0 0 1 P5 0 0 0 0																
P6 0 0 0 0 0 0 0 P6 0 0 0 0 0																
		P6		U I	U	U	UJ (J		P6		U	U	U	0	0

1. Dados los siguientes procesos como lo indica la siguiente tabla:

Р	Tllegada	Тсри	Pr	Tini	Tfin	Т	Е	ı
Α	0	15	3					
В	0	10	0					
С	0	12	1					
D	0	10	2					
Е	0	20	0					
Pro	medio							

Se le pide obtener los parámetros de la tabla restantes y realizar el diagrama de GANTT para los siguientes Algoritmos:

a) FIFO

A)FIFO																																																				
P	lleg	т_срц	PR	T_ini	T_fin	Т	Е	- 1																																												
A	0	15	3	1	15	15	0	1																																												
В	0	10	0	16	25	25	15	0.4																																												
C	0	12	2	26	37	37	25	0.324																																												
D	0	10	3	38	47	47	37	0.213																																												
E	0	20	0	48	67	67	47	0.299																																												
PI	ROME	DIO				38.2	24.8	0.447																																												
P									П			П														Т			П		Т	П		П			П		П			Т			Т							
A	х	1	2	3	4	5	6	7	8	9 1	0 11	12	13 1	15		Т													П		\top			П					П						Т							
В	Х			-	-	-	-		-						1 :	2 3	4	5 (7	8	9 10	0,	\neg					Т	П				Т	П		Т	П		П		\neg	Т	П		Т	П		П		\top	П	
С	Х	-	-	-	-	-	-	-	-			-		-			-		-	-		1	2	4	5 (5 7	8 9	9 10	11	12				П		Т	П		П				П			П						
D	X	-	-	-	-	-	-	-	-			-		-			-		-	-		-	-	-					-	- 1	1 2	3	4 5	6	7 8	9	10		П			\top	П	\neg	Т	П				\top	П	
E	х			-	-	-	-		-			-		-			-		-	-									-			-		-			-	1 2	3	4	5 (6 7	8	9 1	0 11	12	13 14	15	16 1	7 18	3 19	20
0	0	1	2	3	4	5	6	7	8	9 1	0 11	12	13 1	15	16 1	7 1	19	20 2	1 22	23	24 2	5 26	27 2	8 29	30 3	1 32	33 3	4 35	36	37 3	8 39	40 4	1 42	43	44 4	5 46	47	48 4	50	51	52 5	3 54	55	56 5	7 58	59	60 6:	62	63 6	65	5 66	67

b) PR

llega 0	T_cpu																																																
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	15	3	43	57	57	42	0.263																																										
0	10	0	1	10	10	0	1																																										
0	12	2	31	42	42	30	0.286																																										
0	10	3	58	67	67	57	0.149																																										
0	20	0	11	30	30	10	0.667																																										
)					41.2	27.8	0.473																																										
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Х	-	-	-	-		-	-				-		-		-		-	-		-		-	- 1	2 :	3 4	5	6 7	8	9 10	11 1	2	П			П		П				Т	П			П	Т		Т	П
Х	-	-	-	-	-	-	-				-		-		-		-			-		-				-		-				-		-			-		-	-		1	2 3	4	5	5 7	8	9 7	10
Х	-	-	-	-	-	-	-			1 2	3	4 5	6	7 8	9	10 11	12	13 1	4 15	16	17 18	19 2	0			П		П	\neg	П	Т	П				Т	\neg		П		Т	\Box				Т		Т	П
0	1	2	3	4	5	6	7	8 9	10	11 12	13	14 1	5 16	17 18	19	20 21	22	23 2	4 25	26	27 28	29 3	0 31	32 3	3 34	35 3	36 37	38 3	39 40	41 4	2 43	44	45 4	5 47	48 4	9 50	51 5	52 53	54	55 5	6 57	/ 58	59 6	0 61	62 6	3 64	65	66 6	57
	0 0 0 X X X X	0 12 0 10 0 20 X - X 1 X - X - X -	0 12 2 0 10 3 0 20 0 X X 1 2 X X 7 - X	0 12 2 31 0 10 3 58 0 20 0 11 X X 1 2 3 X X X X X X X X X X X X X X X X X X X	0 12 2 31 42 0 10 3 58 67 0 20 0 11 30 X	0 12 2 31 42 42 00 10 10 3 58 67 67 60 20 0 11 30 30 30 412	0 12 2 31 42 42 30 0 10 3 58 67 67 57 0 20 0 11 30 30 10 10 11 30 30 10 10 10 10 10 10 10 10 10 10 10 10 10	0 12 2 31 42 42 30 0.286 0 0 10 3 58 67 67 57 0.149 0 0 20 0 11 30 30 10 0.667 0 0.49 0 0 0 0 0 11 30 30 10 0.667 0 0.49 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 12 2 31 42 42 30 0.286 0 10 3 58 67 67 57 0.149 0 20 0 11 30 30 10 0.667	0 12 2 31 42 42 30 0.286 0 10 3 58 67 67 57 0.149 0 20 0 11 30 30 10 0.667	0 12 2 31 42 42 30 0286 0 10 3 58 67 67 57 0.149 0 20 0 11 30 30 10 0.667	0 12 2 31 42 42 30 0.286 0 10 3 58 67 67 57 0.149 0 20 0 11 30 30 10 0.667	0 12 2 31 42 42 30 0.286 0 10 3 58 67 67 57 0.149 0 20 0 11 30 30 10 0.667 X 1 2 3 4 5 6 7 8 9 10 X 1 2 3 4 5 6 7 8 9 10 X 1 2 3 4 5 6 7 8 9 10 X 1 2 3 4 5 6 7 8 9 10 X 1 2 3 4 5 6 7 8 9 10 X 1 2 3 4 5 6 7 8 9 10 X 1 2 3 4 5 6 7 8 9 10 X 1 2 3 4 5 6 7 8 9 10 X 1 2 3 4 5 6 7 8 9 10	0 12 2 31 42 42 30 0.286 0 10 3 58 67 67 57 0.149 0 20 0 11 30 30 10 0.667	0 12 2 31 42 42 30 0.286 0 10 3 58 67 67 57 0.149 0 20 0 11 30 30 10 0.667 X 1 2 3 4 5 6 7 8 9 10 X 2 2 3 4 5 6 7 8 9 10 X 3 3 4 5 6 7 8 9 10 X 4 5 6 7 8 9 10	0 12 2 31 42 42 30 0.286 0 10 3 58 67 67 57 0.149 0 20 0 11 30 30 10 0.667	0 12 2 31 42 42 30 0.286 0 10 3 58 67 67 57 0.149 0 20 0 11 30 30 10 0.667 X 1 2 3 4 5 6 7 8 9 10 X 1 2 3 4 5 6 7 8 9 10 X	0 12 2 31 42 42 30 0 2266 0 10 3 58 67 67 57 0.149 0 20 0 11 30 30 10 0.667 0 1	0 12 2 31 42 42 30 0286 0 10 3 58 67 67 57 0.149 0 20 0 11 30 30 10 0.667	0 12 2 31 42 42 90 0.286 0 10 3 58 67 67 57 0.149 0 20 0 11 30 30 10 0.657	0 12 2 31 42 42 30 0.286 0 10 3 58 67 67 57 0.149 0 20 0 11 30 30 10 0.667	0 12 2 31 42 42 30 0 286 0 10 0 10 3 58 67 67 57 0 149 0 20 0 11 30 30 10 0 0657 0 149 0 1 1 30 0 10 0 0657 0 149 0 1 1 30 0 10 0 0657 0 149 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 12 2 31 42 42 30 0.286 0 10 3 58 67 67 57 0.149 0 20 0 11 30 30 10 0.667	0 12 2 31 42 42 30 0.286 0 10 3 58 67 67 57 0.149 0 20 0 11 30 30 10 0.667	0 12 2 31 42 42 30 0.286 0 10 3 58 67 67 57 0.149 0 20 0 11 30 30 10 0.667	0 12 2 31 42 42 30 0.286 0 10 3 58 67 67 57 0.149 0 20 0 11 30 30 10 0.667	0 12 2 31 42 42 30 0.286 0 10 3 58 67 67 57 0.149 0 20 0 11 30 30 10 0.667	0 12 2 31 42 42 30 0.286 0 10 3 58 67 67 57 0.149 0 20 0 11 30 30 10 0.667	0 12 2 31 42 42 30 0.286	0 12 2 31 42 42 30 0 286 0 10 0.667 0 17 57 0.149 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0	0 12 2 31 42 42 30 0.286	0 12 2 31 42 42 30 0286 0 10 3 58 67 67 57 0.19 0 20 0 11 30 30 10 0.667 0 20 0 11 30 0.667	0 12 2 31 42 42 30 0286	0 12 2 31 42 42 30 0286 0 10 3 58 67 67 57 0.149 0 20 0 11 30 30 10 0.657	0 12 2 31 42 42 30 0286 0 20 0 11 30 30 10 0667 0 20 0 11 30 30 10 0667 0 20 0 11 30 30 10 0667 0 2 0 0 11 30 30 10 0667 0 3 0 0 10 0 067 0 4 12 12 13 4 5 6 7 8 9 10 11 12 12 14 5 6 7 8 9 10 11 12 13 14 13 13 13 13 13 13 13 13 13 13 13 13 13	0 12 2 31 42 42 30 0286	0 12 2 31 42 42 30 0.286	0 12 2 31 42 42 30 0.286	0 12 2 31 42 42 30 0.286	0 12 2 31 42 42 83 0 0286 0 10 0.667 0 57 0.149 0 10 0.67 0 11 30 0.80 10 0.667 0 11 30 0.80 10 0.667 0 11 30 0.80 10 0.667 0 11 30 0.80 10 0.667 0 11 30 0.80 10 0.667 0 11 30 0.80 10 0.667 0 11 30 0.80 10 0.667 0 11 30 0.80 10 0.667 0 11 30 0.80 10 0.667 0 11 30 0.80 10 0.667 0 11 30 0.80 10 0.667 0 11 30 0.80 10 0.667 0 11 30 0.80 10 0.80	0 12 2 31 42 42 30 0286 0 10 3 58 67 67 57 0.19 0 20 0 11 30 30 10 0.667	0 10 2 3 31 42 42 5 30 0286 0 20 0 11 30 30 10 0.667 1 1 2 3 4 12 278 0.473 X 1 2 3 4 5 6 7 8 9 10 11 22 13 4 5 6 7 8 9 10 11 12 13 4 15 6 7 8 9 10 11 12 13 14 15 X	0 12 2 31 42 42 30 0286	0 12 2 31 42 42 30 0286 0 20 0 11 30 30 10 0667 	0 12 2 31 42 42 30 0.286	0 12 2 31 42 42 90 0286 0 20 0 11 30 30 10 0687	0 12 2 31 42 42 30 0.286	0 12 2 31 42 42 53 0 286	0 12 2 31 42 42 50 0286 0 10 13 58 67 67 57 0199 0 20 0 11 30 30 10 0667 X

c) SJN

C)SJN																																																					
P	_llega	T_cpu	PR	T_ini	T_fin	Т	E	- 1																																													
A	0	15	3	33	47	47	32	0.319																																													
В	0	10	0	1	10	10	0	1																																													
С	0	12	2	21	32	32	20	0.375																																													
D	0	10	3	11	20	20	10	0.5																																													
E	0	20	0	48	67	67	47	0.299																																													
ROMEDI	0					35.2	21.8	0.499																																													
Р									П	П	Т	Т		Т	П	Т	Т			Т	П			П	Т	П			П	Т			Т	Т	П	Т		П	Т				Т	Т			Т	П	Т	Т		П	Т
Α	Х	-	-	-	-	-	-	-	-			-	-		-		-	-			-		-	-		-	- 1	. 2	3	4 5	6	7	8 9	10	11	12 1	3 14	15	\neg				Т	Т				П					\Box
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E	Х	-	-	-	-	-	-	-	-			-	-		-		-	-			-		-	-		-		-	-		-	-		-	-		-	-	1 :	2 3	4	5	6 7	8	9	10 1	1 12	13	14 1	5 16	17 :	18 19	20
	0	1	2	3	4	5	6	7	8	9 1	0 11	1 12	13 1	14 19	16 1	7 1	R 19	20	21 2	2 23	24	25 26	27	28 3	0 20	21	22 2	2 24	25 5	26 2	20	20 /	0 41	1/42	42	44 41	16	47	40 4	9 50	E1	52 5	2 5/	l cc	56	57 E	0 50	60	61 6	2 63	64 6	65 6	: 67

d)RR Q = 1

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	D)RR Q=1																														
	Р	T_llega	T_cpu	PR	T_ini	T_fin	T	E	- 1																						
	Α	0	15	3	0	61	61	46	0.246																						
	В	0	10	0	0	47	47	37	0.213																						
	С	0	12	2	0	55	55	43	0.218																						
	D	0	10	3	0	49	49	39	0.204																						
	E	0	20	0	0	67	67	47	0.299																						
Р	ROMEDIO						11.16	8.48	0.047																						
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Q=1	Р		+													_	\dashv						_	\dashv	\dashv		_			+	+
15	A	X	14	_	_	-	-	13	_	_	_	-	12	_	_	_	_	11	-	_	_	_	10	-	_	_	_	9	_	_	
10	B	X	_	9	-	-	-	-	8		-	-	-	7	-	-	-		6	-	-	-	-	5	-	-	-		4	\rightarrow	
12	С	X	-	-	11	_	-	-	-	10		-	-	-	9	_	-		-	8		-	\rightarrow	-	7	-	-	-	_	-	
10	D	X	+ -			9		-			8	\vdash	-		-	7	\rightarrow		-		6	-	-	-	_	5	-	_	-	_	
			_	-	-		- 10		-	-		10		-	-	-	- 17	-	-	-		1.0	-	\rightarrow	-+	_	- 1F	-	-	_	
20	E	X	-	-	-	-	19	-	-	-	-	18	-	- 42	- 42	-	17	-	-	-	_	16	-	-	-	-	15	-	- 27	-	- 14
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28 2	29 30

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78	13	-	-	-	-	12	-	-	-	-	11	-	-	-	-	10	-	-	-	-	9	-	-	-	-	8	-	-	-	-	7	-	-	- -	-	6 -	- -	-	-	5	-	-	-	-	4	L
79	-	8	-	-	-	-	7	-	-	-	-	6	-	-	-	-	5	-	-	-	-	4	-	-	-	-	3	-	-	-	-	2	-	- -		- 1	l -	-	-	-	0					_
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81	-	-	-	8	-	-	-	-	7	-	-	-	-	6	-	-	-	-	5	-	-	-	-	4	-	-	-	-	3	-	-	-	- [2		- -	- -	1	-	-	-	-	0			_
82	-	-	-	-	18	-	-	-	-	17	-	-	-	-	16	-	-	-	-	15	-	-	-	-	14	-	-	-	- 1	13	-	-	-	- 1	2			-	11		-	-	-	10	-	Ĺ
83	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33 3	34 3	35	36	37 3	38 3	9 4	0 4	11 4	2 4	3 44	1 45	46	47	48	49	50	51	Ē
84																															Т			Т					Т							Г

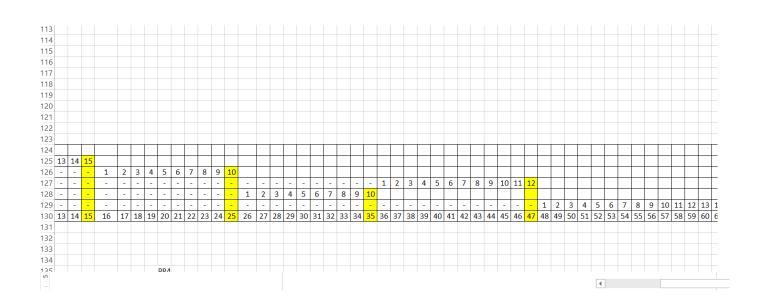
e)SRT

E)STR Q=1																															
Р	T_llega	T_cpu	PR	T_ini	T_fin	Т	E	- 1																							
Α	0	15	3	0	1	61	46	0.246																							
В	0	10	0	0	2	46	36	0.217																							
С	0	12	2	0	3	54	42	0.222																							
D	0	10	3	0	4	47	37	0.213																							
E	0	20	0	0	5	67	47	0.299																							
PROMEDIO						11	8.32	0.048																							
Р																															
Α	Х	14	-	-	-	-	-	-	-	13	-	-	-	-	12	-	-	-	-	11	-	-	-	-	10	-	-	-	-	9	-
В	Х	-	9	-	-	-	8	-	-	-	-	7	-	-	-	-	6	-	-	-	-	5	-	-	-	-	4	-	-	-	-
С	Х	-	-	11		-	-	-	10	-	-	-	-	9	-	-	-	-	8	-	-	-	-	7	-	-	-	-	6	-	-
D	Х	-	-	-	9	-	-	8	-	-	-	-	7	,	-	-	-	6	-	-	-	-	5	-	-	-	-	4	-	-	-
E	Х	-	-	-	-	19	-	-	-	-	18	-	-	-	-	17	-	-	-	-	16	-	-	-	-	15	-	-	-	-	14
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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97					\neg																																											_
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99 -	7	-		-	-	-	6	-	-	-	-	5	-	-	-	-	4	-	-	-	-	3	-	-	-	-	2	-	-	-	-	1	-	-	-	-	0											
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101 -	-	7		- [-	-	-	6	-	-	-	-	5		-	-	-	4	-	-	-		3	-	-	-	-	2	-	-	-	-	1	-	-	-	-	0										
102 18	-	-	. .	- [17	-	-	-	-	16	-	-		-	15	-	-	-	-	14	,	-	-	-	13	-	-	-	-	12	-	-	-	-	11	-	-	,	-	10	-		9	-	-	9	-
103 10	1:	1 12	2 1	3 :	L4	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
104																																																

f)HRRN

13																																	
14			f)HRN																														
15			Р	T_llega	T_cpu	PR	T_ini	T_fin	Т	Е	- 1																						
16			Α	0	15	3	1	15	15	0	1																						
17			В	0	10	0	16	25	25	15	0.4																						
18			С	0	12	2	36	47	47	35	0.255																						
19			D	0	10	3	26	35	35	25	0.286																						
20			E	0	20	0	48	67	67	47	0.299																						
21		Р	ROMEDI	0					7.56	4.88	0.09																						
22																																	
23																																	
24	PR	Q=1	P																														
25	3	15	Α	X	1	2	3	4	5	6	7	8	9	10	11	12	13	14 1	.5													П	
26	0	10	В	X	-	-	-	-	-	-	-	-		-	-	-	-		- 1		2 3	4	5	6	7	8	9	10				П	
27	2	12	С	X	-	-	-	-	-	-	-	-	1	-	-	-	-				- -	-	-	-	-	-	-	-	-	-	-	-	-
28	3	10	D	X	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	1	2	3	4	5
29	0	20	E	X	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-	-	-	-	-	-	-	-
30				0	1	2	3	4	5	6	7	8	9	10	11	12 :	13	14 1	.5 1	5 1	7 18	19	20	21	22	23	24	25	26	27	28	29	30 :
31																																	



2.Dados los siguientes procesos como los indica la siguiente tabla

Р	Tllegada	Тсри	Pr	Tini	Tfin	Т	Е	ı
Α	0	15	3					
В	5	10	0					
С	0	12	1					
D	10	10	2					
Е	1	20	0					
Pror	nedio					·		

Se le pide obtener los parámetros de la tabla restantes y realizar el diagrama de GANNT para los siguientes Algoritmos:

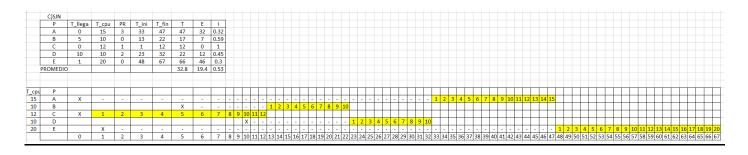
d) FIFO

A)FIFO																																																														
P	T_llega	T_cpu	PR	T_ini	T_fin	Т	Е	1	П																																																					
A	0	15	3	1	15	15	0	1																																																						
В	5	10	0	48	57	52	42	0.19																																																						
С	0	12	1	16	27	27	15	0.44																																																						
D	10	10	2	58	67	57	47	0.18																																																						
E	1	20	0	28	47	46	26	0.43																																																						
PROMEDIO	1					39.4	26	0.45																																																						
											П					Т						Т						Т	Т	П	П			П	П		Т		Т	Т	Т	П					П		Т						Т			П			П	
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A	Х	1	2	3	4	5	6	7	8	9 10	11 :	12 13	14	15																																									\perp						\Box	
В						X	-	-	-		-		-	-	-	-	- -	-	-	-	-		- -	-	-	-	- -	- -	-	-	-	-	-	-	-	-	-			-	-	-	1	2	3	4	5	6	7 :	B 9	9 1	.0		П	Т	П	Т	П			Т	П
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	0	1	2	2	4		6	7	0	0 10	11 :	12 43	1 4 4	4.5	10 1	17 4	10 1	0 20	24	22	22	24 2	E 20	27	20	20 2	0 2	1 2	2 22	24	25	20	27	20	20	10 4	11 /	12 4	12 4	4 41	- 40	47	40	40	FΩ	F4	E 2	- 2	4 5	гг	c	7 1	0 1	-0	co /	-4	ca .	c 2 /	- 4 (cr /	66 6	c 7

e) PR

A)FIFO																																																			
P	T_llega	T_cpu	PR	T_ini	T_fin	T	E	1.0																																											
A	0	15	3	1	15	15	0	1																																											
В	5	10	0	48	57	52	42	0.19																																											
С	0	12	1	16	27	27	15	0.44																																											
D	10	10	2	58	67	57	47	0.18																																											
E	1	20	0	28	47	46	26	0.43																																											
PROMEDIC)					39.4	26	0.45																																											
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P													П	\Box		_		П	\top	П		П		П		П				Т			П			П	Т			Т		Т	\top	П			Т	\top	T		П
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f) SJN



RR Q = 4

C)SJN																							
Р	T_llega	T_cpu	PR	T_ini	T_fin	Т	E	- 1															
Α	0	15	3	1	55	55	40	0.27273															
В	5	10	0	13	57	52	42	0.19231															
С	0	12	1	5	44	44	32	0.27273															
D	10	10	2	25	59	49	39	0.20408															
E	1	20	0	9	67	66	46	0.30303															
PROMEDIC)					10.64	7.96	0.04979															
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			С	С	С	С	A	A	A	A	В	В		_	_	_	CC	_		D D			E
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80 B	3	В	В	С	С	С	С	D	D	D	D	E	E	E	E	Α	Α	Α	Α	В	В	В	В	С	С	С	С	D	D	D	D	E	E	Е	Ε	Α	Α	Α	Α	В	В	В	В	D	D	D	D
81 A	4	Α	Α	В	В	В	В	С	С	С	C	D	D	D	D	E	E	E	E	Α	Α	Α	Α	В	В	В	В	С	С	С	С	D	D	D	D	E	E	Е	Е	Α	Α	Α	Α	В	В	В	В
82 E		E	E	Α	Α	Α	Α	В	В	В	В	С	С	С	С	D	D	D	D	Е	E	Е	E	Α	Α	Α	Α	В	В	В	В	С	С	С	С	D	D	D	D	Ε	Ε	Ε	E	Α	Α	Α	Α
83 C		C	С	E	Ε	Е	Ε	Α	Α	Α	Α	В	В	В	В	С	С	С	С	D	D	D	D	Ε	E	Ε	Е	Α	Α	Α	Α	В	В	В	В	С	С	С	С	D	D	D	D	Ε	Ε	Е	Ε
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90	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
91																																															
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g) SRT

	E)STR																										
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	Α	0	15	3	1	59	59	44	0.2542																		
	В	5	10	0	13	54	49	39	0.1852																		
	С	0	12	1	5	36	36	24	0.3333																		
	D	10	10	2	17	56	46	36	0.1786																		
	E	1	20	0	9	67	66	46	0.2985																		
	PROMEDIC	C					10.24	7.56	0.05																		
T_cpu	Р																										
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12	С	X	-	-	-	-	11	10	9	8	-	-	-	-	-	-	-	-	1	-	-	-	7	6	5	4	-
10	D											x	-	-	-	-	-	-	9	8	7	6	-	-	-	-	-
20	E		X	-	-	-	-	-	-	-	19	18	17	16	-	-	-	-	-	-	-	-	-	-	-	-	-
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h) HRRN

						D) HR	N																																				
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