Assignment 21	Na	me	: Sve	rrir	Sig	ļfúss	on																	
FIFO (using either FIFO-quality	ueu	e o	rcirc	ula	r bı	ıffer)																		
Reference number		1			2			3			4			5			6			7			8	
Page reference string		0			1			3			1			2			0			1			2	
Read/Write access		R			R			W			W			R			R			R			W	
Frame 0	->	0		->	0		->	0		->	0			2			2		->	2		->	2	
Frame 1					1			1			1		->	1			0			0			0	
Frame 2								3			3			3		->	3			1			1	
Number of page faults:	6																							
Second-Chance/Clock																								
Reference number		1			2			3			4			5			6			7			8	
Page reference string	\vdash	0			1			3			1			2			0			1			2	
Read/Write access	\vdash	R			R			W			W			R			R		Н	R			W	
Frame 0	->		R	H		R		0	R	->		R		0			0			0			0	
Frame 1		_	• •	->		R			R			R	->	2	R	->	-	R			R			R
Frame 2				┢	·	. `	->	3				R		3	• •		3		->		R	->	1	
Number of page faults:	6																			•				
Enhanced Second Change) /h	IDII	<u> </u>																					
Enhanced Second-Chance Reference number	e (N				2		_	2			1						6			7			0	
		1			2			3			4			5			6			7			8	
Page reference string		0			1			3		_	1			2			0			1			2	
Read/Write access		R			R			W	_		W			R	_		R			R			W	
Frame 0	->	0	R	<u> </u>		R			R	_	0	514	->	2				R		2	514			M
Frame 1				->	1	R			R			RM			RM	->		RM	->		RM	->		RM
Frame 2	ᆫ			Ļ			->		RM	->	3	М		3	М		0	R		0			0	
Number of page faults:	5				•	iodic					0.11								Ш					
O. J. NEU									d and	th t	e 6th	n rete	erer	ice.		_			Ш					
Classes used by NRU		(,			•																			
			,			nced				d.				_		_			Ш					
	_	•	M) No	ot re	efere	enced	d, m	nodif	ied.	d.														
	3.	R,	́И) No) Re	ot re efere	efere ence	enced ed, no	d, m	nodif nodi	ied. fied.	d.														
	3.	R,	́И) No) Re	ot re efere	efere ence	enced	d, m	nodif nodi	ied. fied.	d.														
Least-Recently-Used (LRI	3. 4.	R,	́И) No) Re	ot re efere	efere ence	enced ed, no	d, m	nodif nodi	ied. fied.	d.														
Least-Recently-Used (LRU Reference number/Time	3. 4.	R,	M) No) Re M) R	ot re efere	efere ence	enced ed, no	d, m	nodif nodi	ied. fied.	d.	4			5			6			7			8	
	3. 4.	(R, (R,	M) No) Re M) R	ot re efere	efere ence renc	enced ed, no	d, m	nodif nodi lified	ied. fied.	d.	4 1			5 2			6 0			7			8 2	
Reference number/Time	3. 4.	(R, (R, 1	M) No) Re M) R	ot re efere	efere ence ence ence	enced ed, no	d, m	nodif nodi lified	ied. fied.	d.										·				
Reference number/Time Page reference string	3. 4.	(R, (R, 1	M) No) Re M) R	ot re	efere ence renc 2	enced ed, no	d, m	nodified	ied. fied.	d.	1	0		2	4		0	4		1	4		2	7
Reference number/Time Page reference string Read/Write access	3. 4.	(R, (R, 1	M) No) Re M) R	ot re	efere ence ence ence 2 1 R	enced ed, no ed, n	d, mod	nodified lified 3 W	ied. fied.	d.	1 W			2 R	4 3		0 R			1 R	4 6		2 W	7 6
Reference number/Time Page reference string Read/Write access Frame 0	3. 4.	(R, (R, 1	M) No) Re M) R	ot re	efere ence ence 2 1 R	enced ed, no ed, n	d, mod	nodified 3 W	ied. fied.		1 W			2 R 2			0 R 2	3		1 R 2			2 W 2	
Reference number/Time Page reference string Read/Write access Frame 0 Frame 1	3. 4.	(R, (R, 1 0 R 0 0)	M) No) Re M) R	ot re	efere ence ence 2 1 R	enced ed, no ed, n	d, mod	nodified 3 3 W 0 1	ied. fied.		1 W 0	3		2 R 2	3		0 R 2 1	3		1 R 2 1	6		2 W 2 1	6
Reference number/Time Page reference string Read/Write access Frame 0 Frame 1 Frame 2 Number of page faults:	3. 4. J)	(R, (R, 1 0 R 0 0)	M) No) Re M) R	ot re	efere ence ence 2 1 R	enced ed, no ed, n	d, mod	nodified 3 3 W 0 1	ied. fied.		1 W 0	3		2 R 2	3		0 R 2 1	3		1 R 2 1	6		2 W 2 1	6
Reference number/Time Page reference string Read/Write access Frame 0 Frame 1 Frame 2	3. 4. J)	(R, (R, 1 0 R 0 0)	M) No) Re M) R	ot re	efere ence ence 2 1 R	enced ed, no ed, n	d, mod	nodified 3 3 W 0 1	ied. fied.		1 W 0	3		2 R 2	3		0 R 2 1	3		1 R 2 1	6		2 W 2 1	6
Reference number/Time Page reference string Read/Write access Frame 0 Frame 1 Frame 2 Number of page faults: Optimal (OPT) Reference number	3. 4. J)	(R, (R, 1 0 0 R 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M) No) Re M) R	ot re	efere ence rence 2 1 R 0	enced ed, no ed, n	d, mod	nodified 3 3 W 0 1 3	ied. fied.		1 W 0 1 3	3		2 R 2 1 3	3		0 R 2 1 0	3 5		1 R 2 1 0	6		2 W 2 1 0	6
Reference number/Time Page reference string Read/Write access Frame 0 Frame 1 Frame 2 Number of page faults: Optimal (OPT) Reference number Page reference string	3. 4. J)	(R, (R, I) 1 0 R 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M) No) Re M) R	ot re	eferce ence rence 1 1 R 0 1	enced ed, no ed, n	d, mod	nodiffied 3 3 W 0 1 3 3 3	ied. fied.		1 W 0 1 3	3		2 R 2 1 3	3		0 R 2 1 0	3 5		1 R 2 1 0	6		2 W 2 1 0	6
Reference number/Time Page reference string Read/Write access Frame 0 Frame 1 Frame 2 Number of page faults: Optimal (OPT) Reference number Page reference string Read/Write access	3. 4. J)	(R, (R, I) 1 0 0 R 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M) No) Re M) R	ot re	efercence 2 1 1 R 0 1 R	enceded, no ed, no 1	d, mod	nodified 3 3 W 0 1 3 W	ied. fied.		1 W 0 1 3 3 4 1 W	3		2 R 2 1 3 5 2 R	3		0 R 2 1 0	5		1 R 2 1 0 7 1 R	6		2 W 2 1 0	6
Reference number/Time Page reference string Read/Write access Frame 0 Frame 1 Frame 2 Number of page faults: Optimal (OPT) Reference number Page reference string Read/Write access Frame 0	3. 4. J)	(R, (R, 1 0 0 R 0 0 R 1 0 0 R 1 0 0 R 1 0 0 R 1 0 0 R 1 0 0 R 1 0 0 R 1 0 0 R 1 0 0 R 1 0 0 R 1 0 0 0 R 1 0 0 0 0	M) No) Re M) R	ot re	eferce ence rence 1 1 R 0 1	enceded, no ed, no 1	d, mod	nodiffied 3 3 W 0 1 3 3 3	ied. fied.		1 W 0 1 3 4 1 W	3 2		2 R 2 1 3	3		0 R 2 1 0 6 0 R	3 5		1 R 2 1 0	6		2 W 2 1 0 8 2 W	6
Reference number/Time Page reference string Read/Write access Frame 0 Frame 1 Frame 2 Number of page faults: Optimal (OPT) Reference number Page reference string Read/Write access	3. 4. J)	(R, (R, 1 0 0 R 0 0 R 1 0 0 R 1 0 0 R 1 0 0 R 1 0 0 R 1 0 0 R 1 0 0 R 1 0 0 R 1 0 0 R 1 0 0 R 1 0 0 0 R 1 0 0 0 0	M) No) Re M) R	ot re	efercence 2 1 1 R 0 1 R R 0 1 R R 0 0 1 R R 0 0 1 R R 0 0 0 0	enceded, no ed, no 1	d, mod	nodiffied 3 3 W 0 1 3 W 0 1 1 3	ied. fied.		1 W 0 1 3 3 4 1 W 0	3 2		2 R 2 1 3 5 2 R 0	3		0 R 2 1 0	3 5		1 R 2 1 0 7 1 R 0	6		2 W 2 1 0 8 2 W 0	6
Reference number/Time Page reference string Read/Write access Frame 0 Frame 1 Frame 2 Number of page faults: Optimal (OPT) Reference number Page reference string Read/Write access Frame 0 Frame 1	3. 4. J)	(R, (R, 1 0 0 R 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M) No) Re M) R	ot re	efercence 2 1 1 R 0 1 R R 0 1 R R 0 0 1 R R 0 0 1 R R 0 0 0 0	enceded, no ed, no 1	d, mod	nodiffication and the second s	ied. fied.		1 W 0 1 3 4 1 W	3 2		2 R 2 1 3 5 2 R	3		0 R 2 1 0 6 0 R	3 5		1 R 2 1 0	6		2 W 2 1 0 8 2 W	6