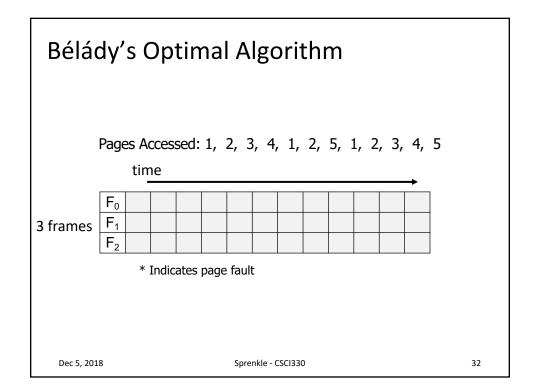
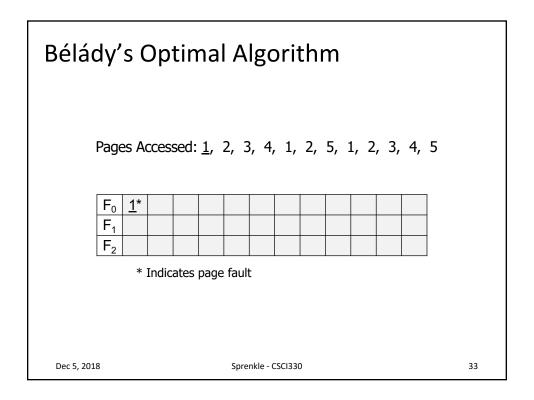
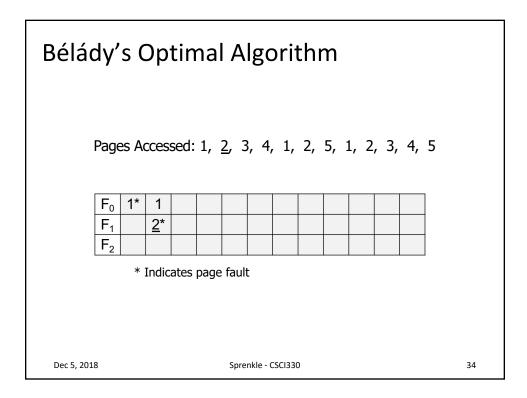


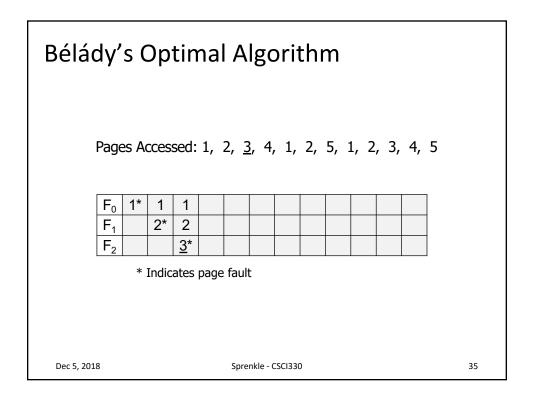


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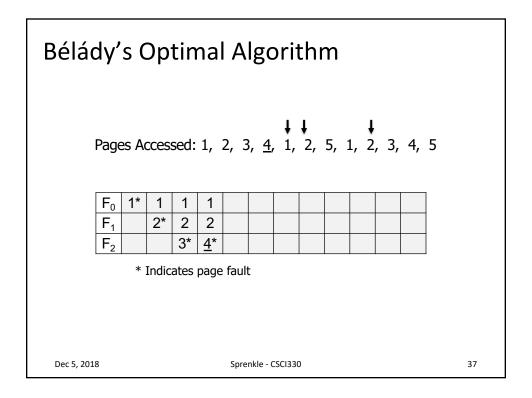


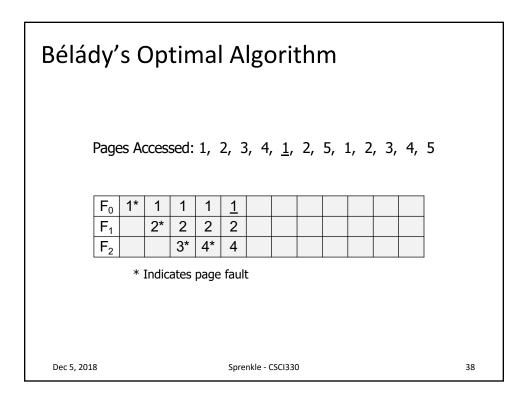


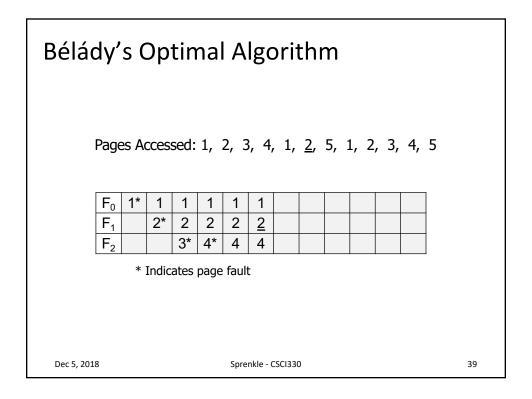




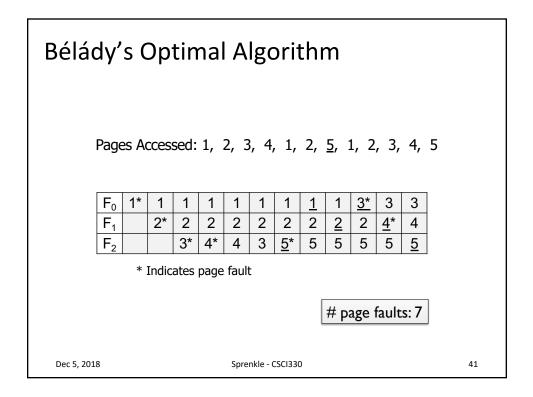
Bélády	Bélády's Optimal Algorithm													
Pag	les Ac	ces	sed:	1,	2, 3	3, <u>4</u>	, 1,	2,	5,	1, 2	2, 3,	4,	5	
F ₀	1*	1	1	?										
F ₁		2*	2	?									1	
F ₂			<u>3</u> *	?										
	* I	[ndic	ates	page	e faul	t							-	
Which frame should we evict to make room for page 4? Why?														
	ame	0					ne 1	-			C: F	ram	e 2	26
Dec 5, 2018					Spre	nkle -	CSCI330	נ						36

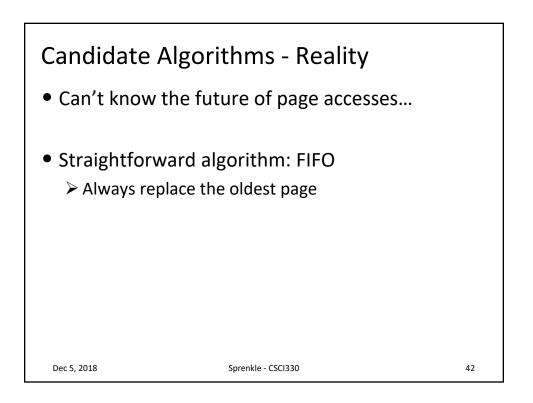


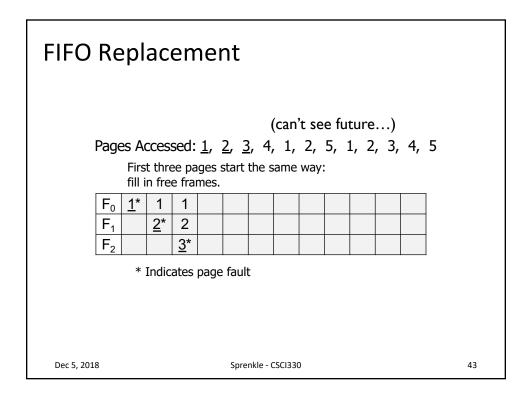




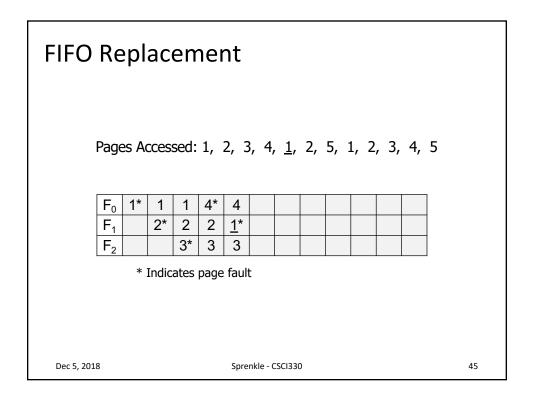
Béláo	Bélády's Optimal Algorithm														
	Pages A	lcces	sed:	1,	2, 3	3, 4	, 1,	2,	<u>5</u> ,	1,	2,	3,	4,	5	
	F ₀ 1* F ₁ F ₂ *	2*	1 2 3*	1 2 4*	1 2 4	1 2 3	1 2 <u>5</u> *								
* Indicates page fault Dec 5, 2018 Sprenkle - CSCI330 40															



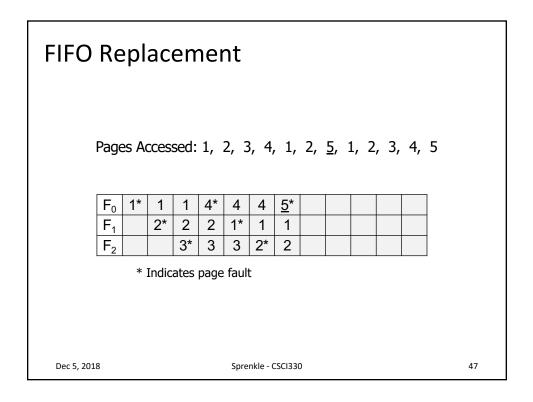




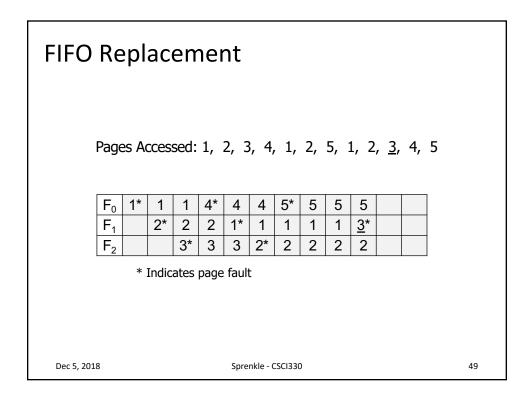
FIFO Replacement												
Pages	Access	sed: 1,	2, 3,	<u>4</u> , 1	, 2,	5,	1, 2	2, 3,	4,	5		
F ₀ 1	* 1	1 4*]		
F ₁	2*	2 2										
F ₂		3* 3										
	* Indica	ates page	e fault									
Dec 5, 2018			Sprenk	le - CSCI3	30						44	



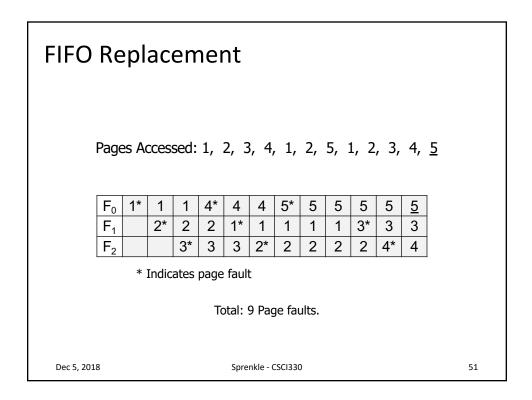
FIFO Replacement													
Pages Accessed	d: 1, 2, 3, 4, 1, <u>2</u> , 5, 1, 2, 3, 4, 5	5											
$\begin{array}{ c c c c c }\hline F_0 & 1^* & 1 & 1 \\\hline F_1 & 2^* & 2 \\\hline F_2 & 3^* \\\hline & & & & \\ & & & & \\ & & & & \\ & & & &$	2 1* 1												
Dec 5, 2018	Sprenkle - CSCI330	46											

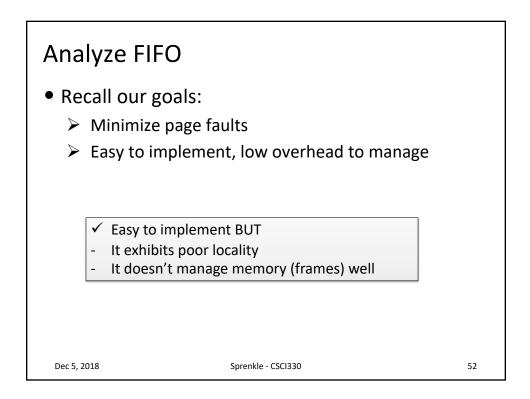


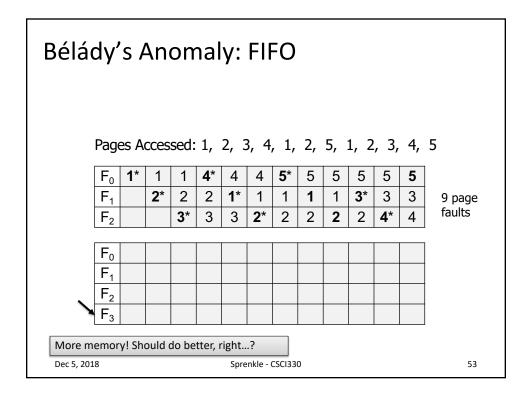
FIFO Replacement													
Page	es Access	ed: 1,	2, 3	, 4,	, 1,	2,	5,	<u>1, 2</u>	, 3,	4,	5		
F ₀ F ₁ F ₂	1* 1 2* * Indica	1 4* 2 2 3* 3	4 1* 3 fault	4 1 2*	5* 1 2	5 <u>1</u> 2	5 1 <u>2</u>						
Dec 5, 2018			Sprer	nkle - (CSCI330)						48	



FIFO Replacement														
Pag	les A	cces	sed:	1,	2, 3	3, 4,	, 1,	2,	5, 1	1, 2	, 3,	<u>4</u> ,	5	
Fo	1*	1	1	4*	4	4	5*	5	5	5	5]	
F ₁		2*	2	2	1*	1	1	1	1	3*	3			
F ₂			3*	3	3	2*	2	2	2	2	<u>4</u> *			
	*	Indic	ates	page	faul	t								
Dec 5, 2018					Spre	nkle - (CSCI33	0						50







Bélád	Bélády's Anomaly: FIFO													
								, 1,						5
	F ₀	1*	1	1	4*	4	4	5*	5	5	5	5	5	
	F_1		2*	2	2	1*	1	1	1	1	3*	3	3	9 page
	F ₂			3*	3	3	2*	2	2	2	2	4*	4	faults
														1
	F_0	1*	1	1	1	1	1	5*	5	5	5	4*	4	
	F_1		2*	2	2	2	2	2	1*	1	1	1	5*	
	F_2			3*	3	3	3	3	3	2*	2	2	2	10!!! page
	F_3				4 *	4	4	4	4	4	3*	3	3	faults
														1
Dec 5, 2018	Dec 5, 2018 Sprenkle - CSCI330 54													54

