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HW7: Virtual Memory and Storage Scheduling

Given a 3 frame VMM and the page request sequence below (it's the top row), perform the VMM First In First Out page replacement policy (complete the table) to determine the total number of page faults for the sequence.

F	1	2	3	4	2	4	5	1	6	3	7	5	3	2	6	6	2	4	5	3	2	1	5	1	6	3	4	2	1
0	1	2	3	4	4	4	5	ı	6	3	7	S	5	2	6	6	6	4	5	3	ર	ı	5	5	٤	3	4	2	1
1		ı	a.	3	3	3	4	5	ı	ç	3	7	7	5	2	2	2	6	4	s	3	3	1	ı	5	6	3	4	2
2			ı	2	2	2	3	4	S	ı	6	3	3	7	5	s	\$	a	۲	4	٤	3	2	2	ı	S	6	3	4
	X	ス	 ×	メ	•	•	X	人	メ	メ	. <u>人</u>	ァ	0	K	<u> </u>	6	0	人	×	人	入	メ	×	0	×	メ	<u> </u>	×	\overline{x}

How many page faults? 23 Fults

Given a 4 frame VMM and the page request sequence below (it's the top row), perform the VMM Least Recently Used page replacement policy (complete the table) to determine the total number of page faults for the sequence.

F	1	2	3	4	2	4	5	1	6	3	7	5	3	2	6	6	2	4	5	3	2	1	5	1	6	3	4	2	1
0	ı	1	ı	1	,	1	5	\$	٤	S	7	7	7	7	6	6	4	c	6	3	3	3	3	3	6	6	6	6	1
1		2	2	3	2	3	2	2	۲	6	6	6	6	2	2	2	2	2	2	a	Z.	2	2	2	2	3	3	3	3
2			3	3	3	3	3	ı	1	1	ı	5	S	5	S	S	5	ч	ч	ч	4	1	ı	1	1	ı	ı	2	2
3				4	4	4	4	ч	ч	3	3	3	3	3	3	3	3	3	S	S	٤	5	S	5	S	5	41	4	4
	<u>Х</u>	<u>,</u>	<u>人</u>	<u>ト</u>	٥	0	<u> </u>	 	<u>_</u>	— 人	_ く	— 人	0	ノ	メ	6	0	人	٨	人	0	×	0	٥	×	×	X	X	X

How many page faults?

21 faults
Given a 3 frame VMM and the page request sequence below (it's the top row), perform the VMM Optimal page replacement policy (complete the table) to determine the total number of page faults for the sequence.

F	1	2	3	4	2	4	5	1	6	3	7	5	3	2	6	6	2	4	5	3	2	1	5	1	6	3	4	2	1
0	ı	١	J	ı	ı	ı	ı	١	6	3	3	3	3	3	6	6	(4	4	3	3	3	3	3	3	3	¥	2	2
1		2	2	a	4	a	ą	a.	2	2	7	7	7	2	2	2	2	2	2	2	ર	ı	ι	ı	ı	ι	L	l	ı
2			3	4	4	4	5	5	5	5	5	5	S	5	5	5	5	5	5	5	S	5	٤	5	6	6	6	4	4
Hov	v ma	any	pag	je fa	ults	?	f				X	0	0	×	X	0	x	*	0	*	0	×	0	D	×	0	*	*	0