



	p 2 /	and c	. + .		2500) 1					
1	Troblem 3 (LRU Cache Implementation, 35%) Analysis									
7.	Very Large	e Test - https://horvig.com/big.txt & 1,088, +24 words								
	Large Test - Hamlet text ≈ 31,955 words									
	Moderate	Moderate Test 1 - 5,007 random words Moderate Test 2 - 5,326 short story (www. Heshortstay.co.uk/wp-content/uploads/2016/0) Word /short-stories-by-J-Goethe, pdf) To be 312 cache . # Left # Right . 13-Total 15-Avg # 16-# Cache pdf)								
	Moderate lest 2 - 3,326, short story (www. + cshortstay.co.uk/wp-content/uploads/2016/02									
	4. Teatre	1- Cache	# 109+	T#Riakt	3.Total	5. Ava #	6.# Cache	siones-by-j	T PAP	
	rest(size)	Capacity	Rotations	Rotations	Rotations	of lotations	Misses		-	
1/ / 7)	1mil	100		3,566,933		6	969,027		1	
Very large Test	1mil	1,000	1	3,707,557		6	916,663			
	1mil			4,763,738		8	646,147			
	31k	100	115,641	111,096	226,737	7	28,873			
Hamlet Text	31k	1,000	153,831		303,537	9	23274	6		
	31k	10,000	219,124	217,745	436,869	13	0			
	5k	100	20,334	19,335	39,669	7	4,851			
Mod. Test 1	5k	1,000	41,978	41,431	83,409	16	3,643	-		
	5k	10,000	58,208	57,892	116,100	23	0		2	
	5k	100	20,934	29,197	41,131	7	4,219			
Mod. Test 2 }	Sk	1,000	33,459	33,200	66,659	12	1,233			
	5k	40,000	32,902	32,775	65,677	12	0		14	
7-	7- While the cache capacity increased by factors of 10 for both moderate-sized tests, the total # of rotations increased for the uniformly random data while it increased then decreased for the English text. There was a noticeable difference between the two tests. Average # of rotations: Moderate Test 1 had increasingly higher average # of rotations as cache capacity increased compared to Moderate Test 2 which stayed									
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			ache capa	apacity increased by a factor of 10.						
						7				

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