CPSC	351 Proje	ect: Virtual Memory Manager, due 23 Apr 2022
Your na	me:	
Tour na	Marc	co Gabriel
Reposit	ory (print): h	https://github.com/PMarcoG10/CPSC-351-Virtual-Memory
		owing items and place a checkmark in the correct column. Each item incorrectly
marked v	will incur a 59	% penalty on the grade for this assignment
Finished	Not finished	
4		
		Created functions that correctly calculate the offset and page of a given virtual address
_		Created a page table, that contains the frame of a given page, and which will page fault
		if the desired page is not in memory (this will happen. (A) when the program is first run
		and physical memory is empty, and (B) if only half as many physical frames as pages in the page table
		Given a given logical address, checks the page table to find the corresponding physical address
		Correctly reads the given physical address for the char value stored there
	_	Goes to the BACKING_STORE and reads in the corresponding page into a free frame
		in physical memory. If there are only 128 frames, it must replace a frame to do this.
	ח	Implemented a Translation Lookaside Buffer (TLB) to store the most recently read-in
		page, AND checks the TLB first when decoding a logical address.
<u> </u>		Do following when reading a logical address that is not in the TLB/Page table: Check
		TLB → (TLB miss) Check Page Table → (Page table miss) Page fault → read page from
	_	BACKING_STORF → updates physical memory → updates Page table → updates TLB
		→ reads value from physical memory
	ם	Follows this flow diagram when has a TLB hit. Check TLB → Gets frame and offset →
		reads value from physical memory
		Do following when has a TLB miss but a Page table hit → Check TLB → (TLB miss) → Checks Page table → Updates TLB → Gets frame and offset → reads value from
_		physical memory
	_	
		Page-fault rate the percentage of address references that resulted in page faults.
		TLB hit rate the percentage of address references that were resolved in the TLB
	ם	Now modify your program so that it has only 128 page frames of physical memory (but
		still has 256 entries in the page table)
	ם	Program now keeps track of the free page frames, as well as implementing a page-
		replacement policy using either FIFO or LRU
		Project directory pushed to new GitHub repository listed above
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Fill out and print this page, and submit it on Titanium on the day this project is due.