CPSC	351 Proje	ect: Virtual Memory Manager, due 23 Apr 2022
Your name: Repository (print): https://github.com/ Verify each of the following items and place a checkmark in the correct column. Each item incorrectly marked will incur a 5% penalty on the grade for this assignment		
₹	٥	Created functions that correctly calculate the offset and page of a given virtual address
¥	۵	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
₹	ם	Given a given logical address, checks the page table to find the corresponding physical address
Z	٥	Correctly reads the given physical address for the char value stored there
	ם	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.
Ø	ם	Implemented a Translation Lookaside Buffer (TLB) to store the most recently read-in page, AND checks the TLB first when decoding a logical address.
Ø	۵	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_ STORE → updates physical memory → updates Page table → updates TLB → reads value from physical memory.
₹	۵	Follows this flow diagram when has a TLB hit: Check TLB \rightarrow Gets frame and offset \rightarrow reads value from physical memory
₽⁄	ם	Do following when has a TLB miss but a Page table hit \rightarrow Check TLB \rightarrow (TLB miss) \rightarrow Checks Page table \rightarrow Updates TLB \rightarrow Gets frame and offset \rightarrow reads value from physical memory
₹	ם	Page-fault rate the percentage of address references that resulted in page faults.
₽	٥	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)
₽′	۵	Program now keeps track of the free page frames, as well as implementing a page-replacement policy using either FIFO or LRU
₽⁄	ם	Project directory pushed to new GitHub repository listed above

Fill out and print this page, and submit it on Titanium on the day this project is due.