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Comps B

OS Exp 9 : Paging

Learnings and observation : Paging is a memory ~~manager~~ management scheme used by operating systems that eliminates the need for contiguous allocation of physical memory. Paging involves logical division of secondary memory into chunks of fixed size, called pages, from which processes can be retreived from main memory. In the given problem statement, we are given a memory address and a page ~~size~~ size of 4 Kb, and are asked to find page no. & offset.

To find page no. we just ~~wanted~~ had to remove the first 12 bits of the address (effectively dividing by 4096) and to find the offset we took the number minus page number ^ 12, effectively taking n % 4096.

Here, we are assuming that the pages are numbered starting from the location 0 and the pages are indexed starting from 0.