8.20 Assuming a 1-KB page size, what are the page numbers and offsets for the following address references (provided as decimal)

since the paper size is 1-kb (1024 bits or 210). In conclusion we use this value to solve for both Page numbers is offsets

8.23 consider a logical address space with a 4-KB page size, mapped

onto a physical memory of 64 trames.

a. How many bits are required in the logical address?

Pages x Page Size -> 256 x 4096 = 28 x 212 = 200

20 bits are required

b. How many bits are required in the physical address?

8.24 Consider a computer system with a 32-bit logical address and a 4-kB page Size. The systems supports up to 512 mb of physical memory. How many entires are there in the following? Means Pages

a. A conventicular single-level page table

HW 5 - Page Faults

9.21 Consider the following page reference String
7, 2, 3, 1, 2, 5, 3, 4, 6, 7, 7, 1, 0, 5, 4, 6, 2, 3, 0, 1

Assuming demand paging with three frames, How many page faults would occur for the following replacement algorithms?

timo replacement (3 frames)

3 0 1 17 page faults

6 0 0 1 1 1 3 3 3

MAND replacement (3 frames)

x — Least Recently Used