In the name of God

Computer Architecture: Assignment #4

Due on Friday, March 4, 2016

Dr. Zarandi 10:45 am

Iman Tabrizian

Computer Memberture (Dr. Zarandi 10.49 am), Assignment #4	Computer Architecture	(Dr.	Zarandi	10:45	am):	Assignment	#4
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Iman Tabrizian

Problem 1	3
Problem 2	3
(a)	3

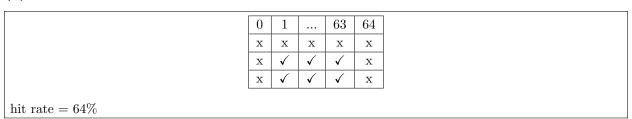
Problem 1

Computer A:
$$T_{access} = t_1 * h_1 + (1 - h_1) * (t_1 + t_2) = 0.98 * 2 + 0.02 * 22 = 2.4ns$$

Computer B: $T_{access} = t_1 * h_1 + (1 - h_1) * (t_1 + t_2) = 0.90 * 1.2 + 0.1 * 21.2 = 3.2ns$

Problem 2

(a)



(b)

With LRU replacement policy you the hit rate will be the same as above because with the above policy also the least recently used element will be deleted. hit rate = 64%