## CSE321 Quiz 4

**Total Marks: 20** 

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Sec: 03

[CO6] Consider a computer with a main memory of size 4 and a page reference string of 7 pages: [6, 7, 5, 1, 3, 6, 3, 0, 4, 0, 0, 3]. The page reference string represents the order in which the pages are accessed by a program. Apply LRU algorithm to simulate the page replacements that occur when the main memory can hold at most 4 pages at a time. Record the number of page faults that occur.

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[CO6] Consider a system with 120MB of available memory and a list of 10 processes with the following memory requirements. Using a variable-sized partitioning approach, allocate memory to these processes using the First Fit, Best Fit, and Worst Fit algorithms and compare the results. Fill in the blanks with information of the original block number where each process has been assigned to. Write down 'N/A' if you are unable to allocate any location. Finally mention the most suitable algorithm in this scenario.

	Memory	
1	11 MB	
2	30 MB	A/H
3	45 MB	-> N/A
4	34 MB	-> MA

Processes	Size	Frist fit	Best fit	Worst fit
P1	10 MB			
P2	10 MB			
Р3	5 MB			
P4	5 MB			
P5	5 MB			
Р6	15 MB	1 No 4 MB	1 No 4 MB	
P7	25 MB			140 NR
P8 /	10 MB			
Р9	20 MB			
P10	15 MB	NA		

Not Applicable Not Applicable Not Applicable

No one is suitable algorithm for this scenario. Because we can not allo cate (2,3,4) which (30, 45, 34).

Bonus Task: Make a unique meme using your own creativity revalant to CSE321 course.

[2.5 Marks]

