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CS-SEDA

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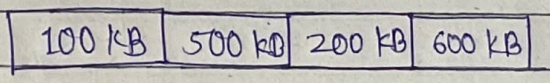
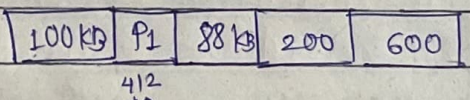
TUTORIAL : Memory Management
Placement strategies

Q. Given memory ~~management~~ partition of 100 KB, 500KB, 200KB and 600kb (in order) show with neat sketch how could each of the first fit, best fit and worst fit algorithm place processes of 412KB, 317 KB & 112 KB & 326 KB (in order) which algorithm is most efficient in memory allocation.

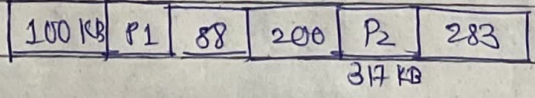
(1) First fit (All units in KB)



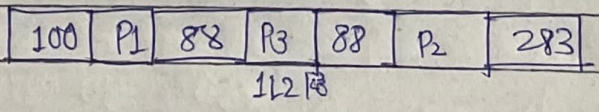
P1 >>



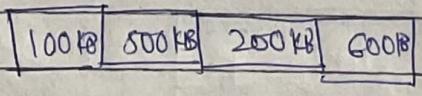
P2 >>



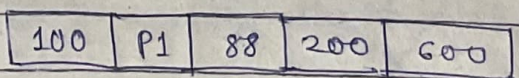
P3 >>



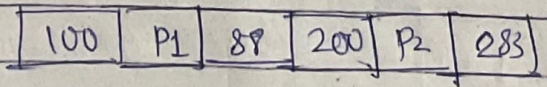
(2) Best fit (All units in KB)

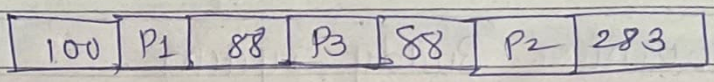


P1 >>

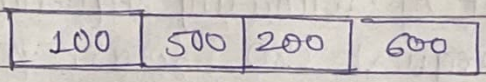


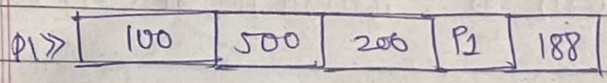
P2 >>

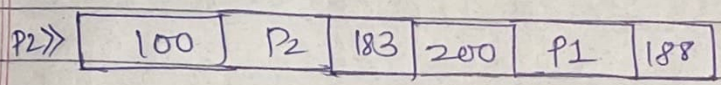


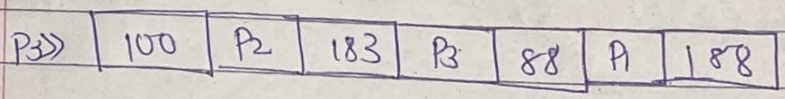


(3) Worst fit (All units in KB)









In all the cases (best fit, 1st fit, worst fit) the process P4 which was of 326 KB cant get allocated to a partition. No space available for P4.