Lab3

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1 EXPLAIN THE DIFFERENCE BETWEEN INTERNAL AND EXTERNAL FRAGMENTATION.

Internal fragmentation is "unused memory that is internal to a partition", whereas external fragmentation exists when "there is enough total memory space to satisfy a request but the available spaces are no contiguous; storage is fragmented into a large number of small holes."

2 GIVEN FIVE (5) MEMORY PARTITIONS OF 100KB, 500KB, 200KB, 300KB, AND 600KB (IN THAT ORDER), HOW WOULD OPTIMAL, FIRST-FIT, BEST-FIT, AND WORST-FIT ALGORITHMS PLACE PROCESSES OF 212KB, 417KB, 112KB, AND 426KB (IN THAT ORDER)?

First-fit:

Allocate 212KB in the 500KB partition. Allocate 417KB in the 600KB partition.

Best-fit:

Allocate 212KB in 300KB partition. Allocate 417KB in 500KB partition. Allocate 112KB in 200KB partition. Allocate 426KB in 600KB partition.

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Worst-fit:

Allocate 212KB in 600KB partition. Allocate 417KB in 500KB partition. Allocate 112KB in 300KB partition.