Lab 3

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1 Questions

1.1 Explain the difference between internal and external fragmentation

In internal fragmentation, larger fixed-size memory space is allocated to fit the requested memory, while in external fragmentation, memory space will vary to satisfy the requested memory.

1.2 Given 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)

Optimal:
212KB in 300KB Partition
417KB in 500KB Partition
112KB in 600KB Partition
426KB in 600KB Partition

First-Fit:
212KB in 500KB Partition
417KB in 600KB Partition
112KB in 500KB Partition
426KB doesn't fit in any Partitions

Best-Fit:
212KB in 300KB Partition
417KB in 500KB Partition
112KB in 200KB Partition
426KB in 600KB Partition

Worst-Fit:
212KB in 600KB Partition
417KB in 500KB Partition
112KB in 600KB Partition
426KB doesn't fit in any Partitions