

Working with Memory Management

1. Given memory partitions of 100K, 450K, 250K, 300K, and 600K (in order), how would each of the First-fit, Best-fit, and Worst-fit algorithms place processes of 212K, 317K, 172K, and 426K (in order)? Which algorithm makes the most efficient use of memory and explain?
2. Consider the following page reference string
4, 7, 2, 0, 1, 3, 2, 3, 4, 2, 1, 5, 7, 6, 2, 6, 3, 2, 1, 2, 3, 6
How many page faults would occur for FIFO page replacement algorithms – with 4 frames?
3. Consider the following page reference string
2, 3, 4, 2, 1, 5, 7, 6, 2, 6, 3, 2, 1, 2, 3, 6, 4, 7, 2, 2, 3, 3
How many page faults would occur for LRU page replacement algorithms – with 4 frames?