

1. Write a C program to simulate First-fit, Best-fit and Worst-fit memory mapping strategies. Given memory partitions of 100K, 500K, 200K, 300K, and 600K (in order), how would each of the First-fit, Best-fit, and Worst-fit algorithms place processes of 212K, 417K, 112K, and 426K (in order)? Which algorithm makes efficient use of memory?