Implement the following algorithms for Disk management:

1. FCFS
2. SSTF
3. SCAN
4. C SCAN
5. LOOK

Consider that the head is at track number 40 and the following sequence of tracks has to be read

45, 6, 8, 22,176, 27, 77, 33, 30, 168, 190, 1, 3.

Compute the seek time for each of the above algorithms