**PROGRAMMING ASSIGNMENT**

**DISK SCHEDULING ALGORITHMS**

Write a program the implements the following disk-scheduling algorithms:

1. FCFS
2. SSTF
3. SCAN

Your program will service a disk drive with 5,000 cylinders numbered 0-4,999.

The program shall use the set of 50 requests provided below and service them according to three of the algorithms listed above. The program will be passed the initial position of the disk head (65) as a parameter on the command line and shall report the total amount of head movement by each algorithm.

4078, 153, 2819, 3294, 1433, 211, 1594, 2004, 2335, 2007, 771, 1043, 3950, 2784, 1881, 2931, 3599, 1245, 4086, 520, 3901, 2866, 947, 3794, 2353, 3970, 3948, 1815, 4621, 372, 2684, 3088, 827, 3126, 2083, 584, 4420, 1294, 917, 2881, 3659, 2868, 100, 1581, 4581, 1664, 1001, 1213, 3439, 4706, 4869