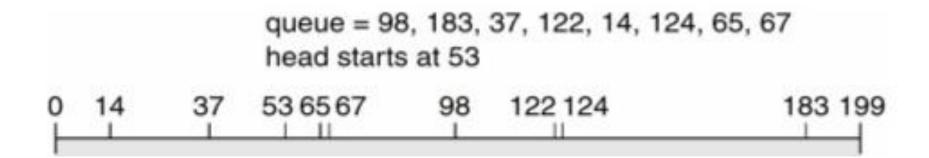
# Disk Scheduling Algorithms

# Sample problem:

- Consider for example an ordered disk queue with requests involving
  - Tracks 98, 183, 37, 122, 14, 124, 65, 67
  - Head pointer 53
- The request queue (0-199)

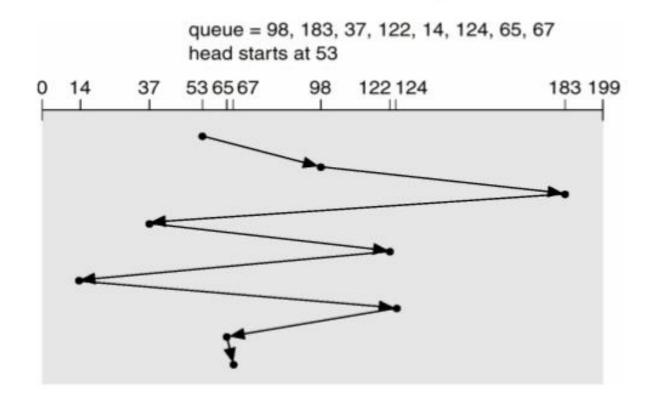
## **FCFS**



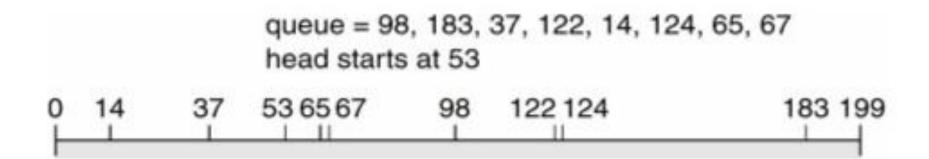
# **FCFS**

• 640 total head movements

#### FCFS Scheduling

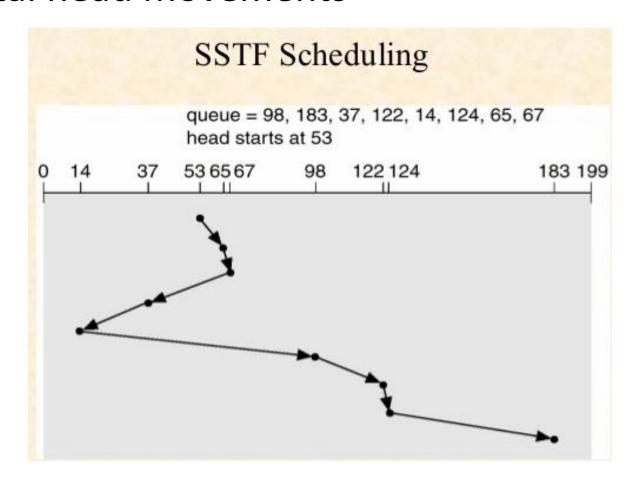


# **SSTF**

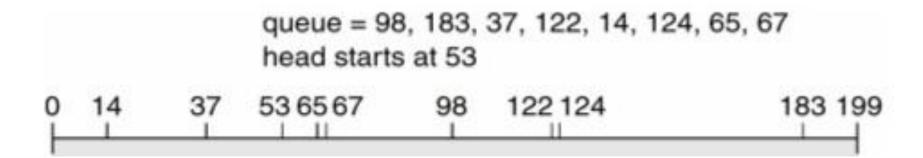


# SSTF

• 236 total head movements



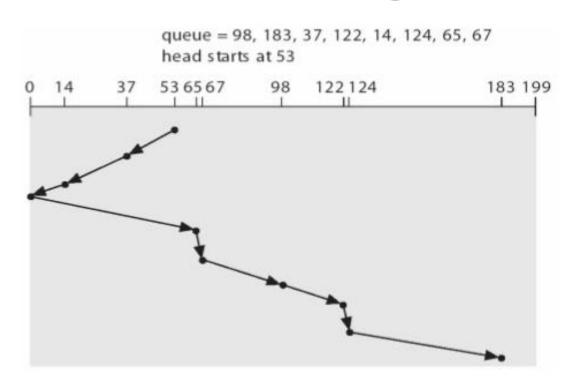
# SCAN (heading towards 0 or left direction)



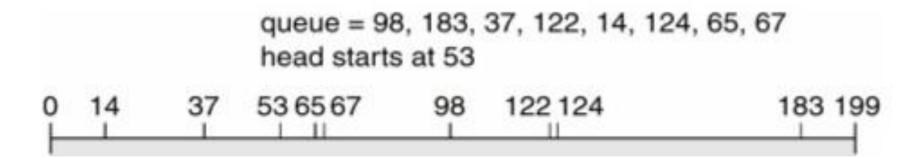
## **SCAN**

• 238 total head movements

#### SCAN Scheduling



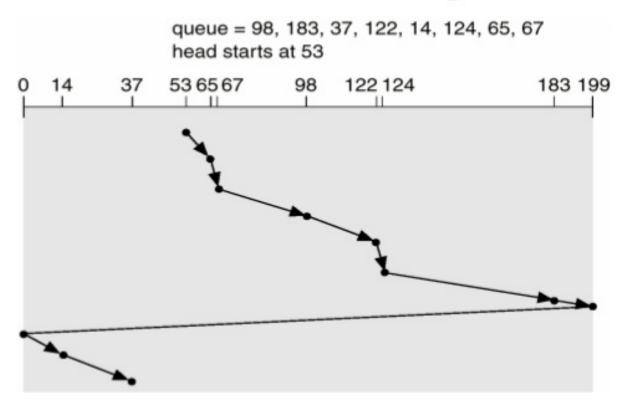
# C-SCAN (heading towards right direction)



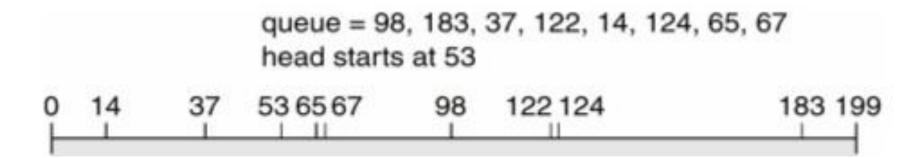
# C-SCAN

• 382 total head movements

#### C-SCAN Scheduling

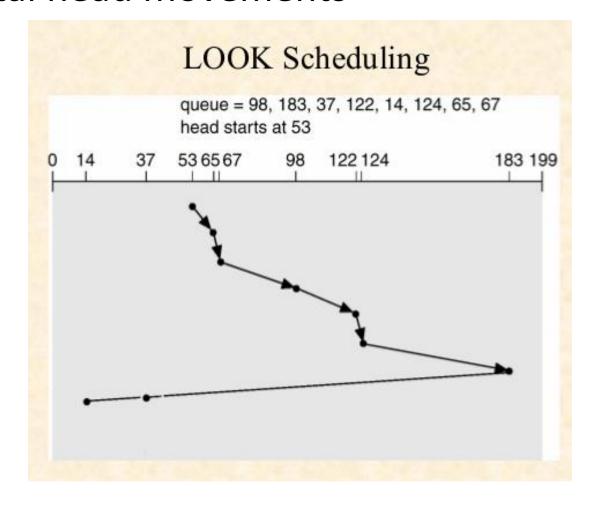


# LOOK (heading towards right direction)

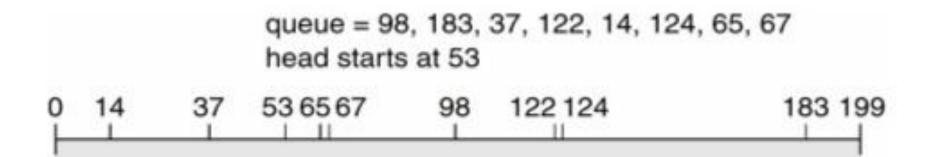


# LOOK

• 299 total head movements



### C-LOOK



## C-LOOK

• 338 total head movements

#### C-LOOK Scheduling

