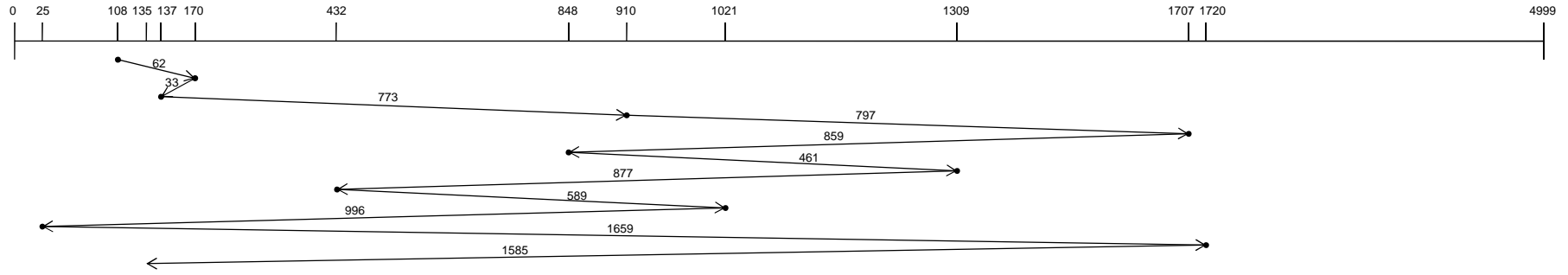


FCFS: First-Come-First-Served

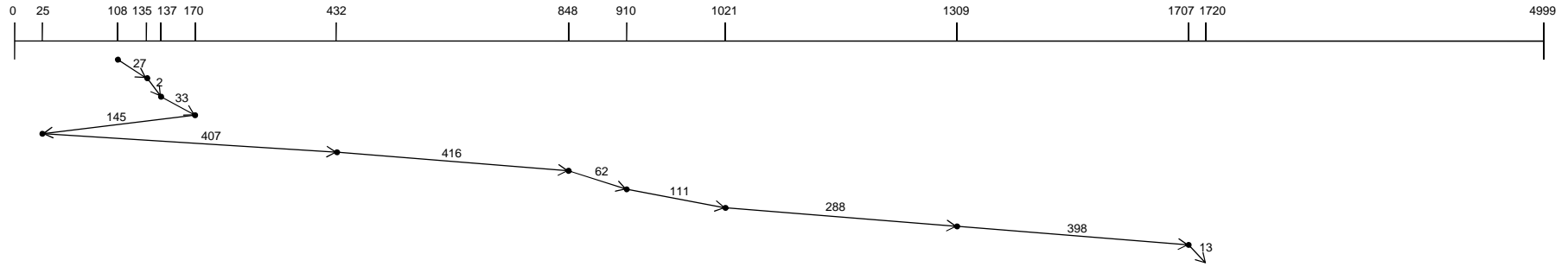
Current head position: 108
Queue of pending requests: 108, 170, 137, 910, 1707, 848, 1309, 432, 1021, 25, 1720, 134



Total distance in cylinders: 8,727 (62+33+773+797+859+461+877+589+996+1685+1585)

SSTF

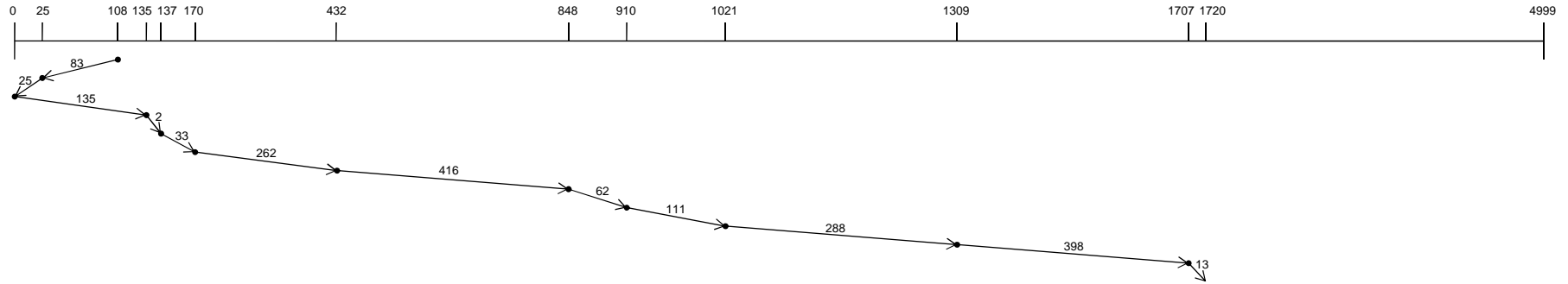
Current head position: 108
Queue of pending requests: 108, 170, 137, 910, 1707, 848, 1309, 432, 1021, 25, 1720, 134



Total distance in cylinders: 1,902 (27+2+33+145+407+416+62+111+288+398+13)

SCAN (1)

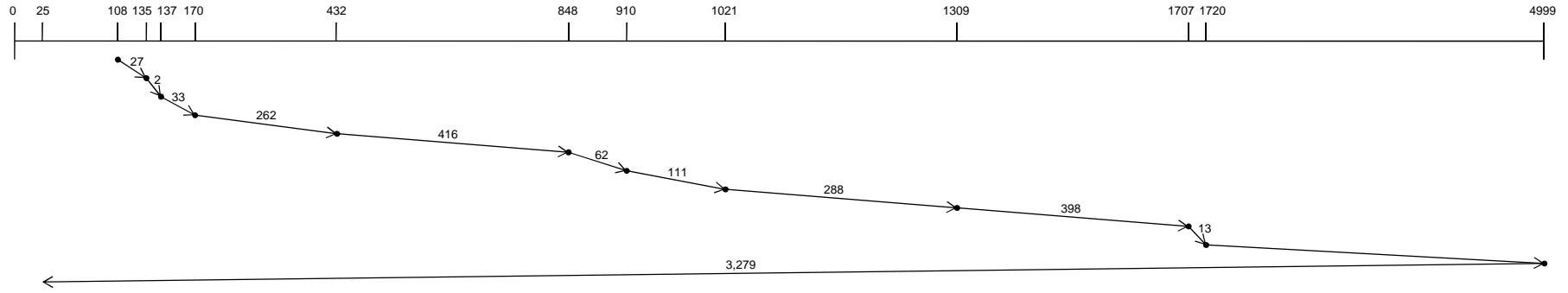
Current head position: 108
Queue of pending requests: 108, 170, 137, 910, 1707, 848, 1309, 432, 1021, 25, 1720, 134
Direction of head: 0



Total distance in cylinders: 1,828 (83+25+135+2+33+262+416+62+111+288+398+13)

SCAN (2)

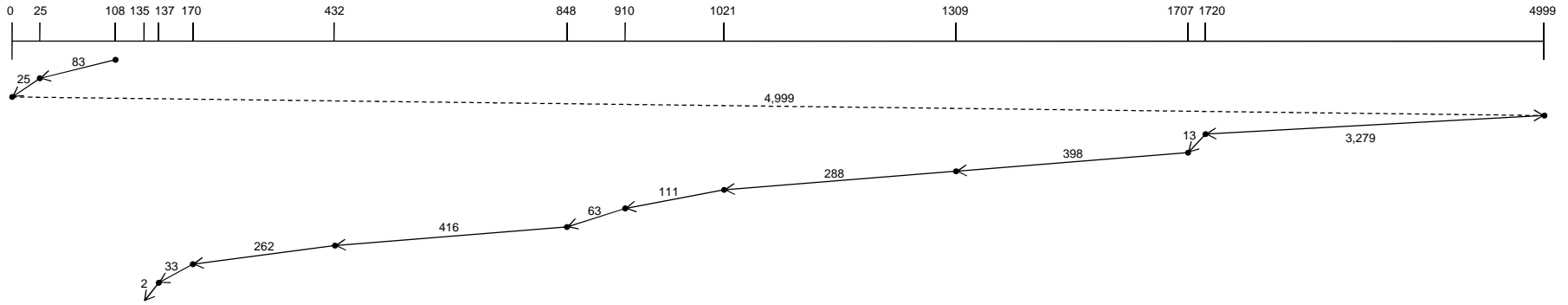
Current head position: 108
Queue of pending requests: 108, 170, 137, 910, 1707, 848, 1309, 432, 1021, 25, 1720, 134
Direction of head: 4999



Total distance in cylinders: 9,865 (27+2+33+262+416+62+111+288+398+13+3,279)

C-SCAN: Circular SCAN

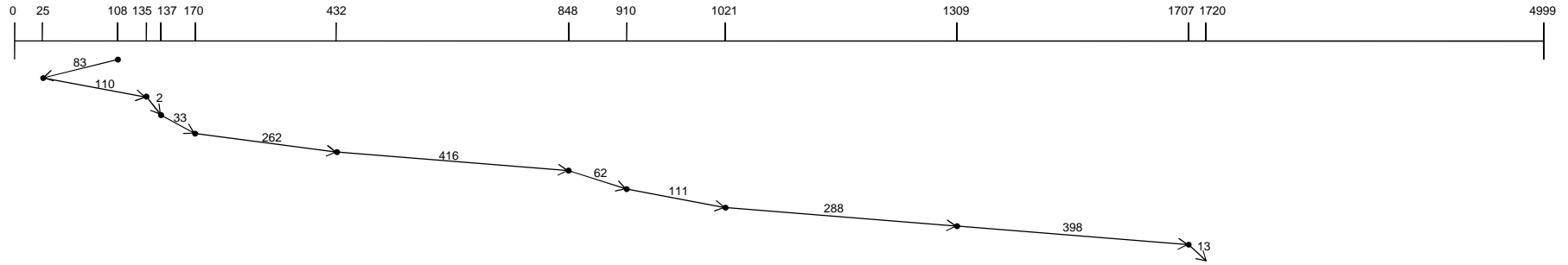
Current head position: 108
Queue of pending requests: 108, 170, 137, 910, 1707, 848, 1309, 432, 1021, 25, 1720, 134
Direction of head: 0



Total distance in cylinders: $9,971$ ($83+25+4,999+3,279+13+398+288+111+62+416+262+33+2$)
Total distance without the distance from 0 to 4,999: $4,972$ ($83+25+3,279+13+398+288+111+416+262+33+2$)

LOOK (1)

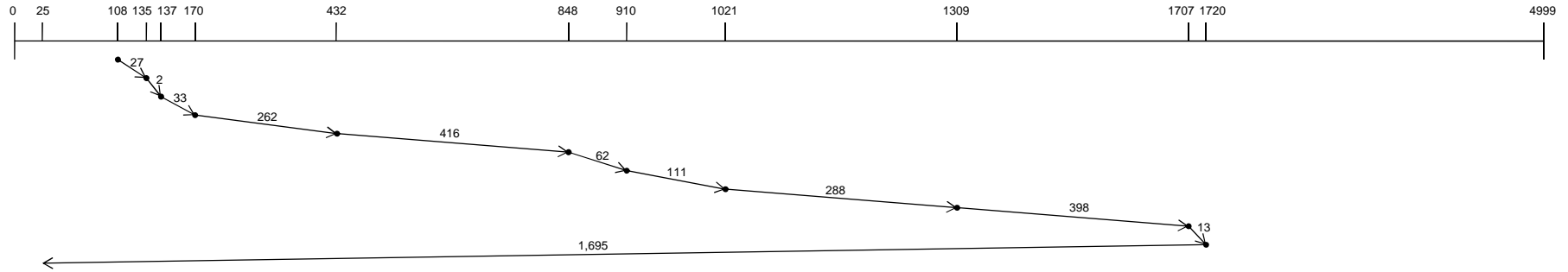
Current head position: 108
Queue of pending requests: 108, 170, 137, 910, 1707, 848, 1309, 432, 1021, 25, 1720, 134
Direction of head: 0



Total distance in cylinders: 1,778 (83+110+2+33+262+416+62+111+288+398+13)

LOOK (2)

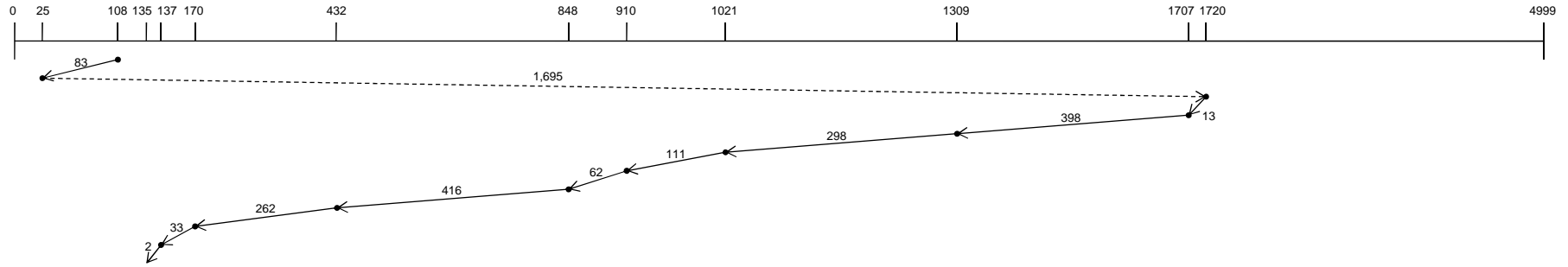
Current head position: 108
Queue of pending requests: 108, 170, 137, 910, 1707, 848, 1309, 432, 1021, 25, 1720, 134
Direction of head: 4999



Total distance in cylinders: 3,307 (27+2+33+262+416+62+111+288+398+13+1,695)

C-LOOK: Circular LOOK

Current head position: 108
Queue of pending requests: 108, 170, 137, 910, 1707, 848, 1309, 432, 1021, 25, 1720, 134
Direction of head: 0



Total distance in cylinders: 3,363 ($83+1,695+13+398+298+111+62+416+262+33+2$)
Total distance without the distance from 25 to 1,720: 1,668 ($83+13+398+298+111+62+416+262+33+2$)