Disk scheduling algorithms
In this assignment, your team will simulate disk scheduling algorithms.

Suppose that a disk drive has 5,000 cylinders, numbered 0 to 4999. The drive head starts at cylinder 2255. The queue of pending requests, in FIFO order, is:

2055, 1175, 2304, 2700, 513, 1680, 256, 1401, 4922, 3692

For each of the following disk-scheduling algorithms, starting from the current head position, what is the order of cylinders visited by the head?

- a. FCFS
- b. SSTF
- c. SCAN
- d. LOOK
- e. C-SCAN
- f. C-LOOK

What is the total distance (in cylinders) that the disk arm moves to satisfy all the pending requests for each of the disk-scheduling algorithms?

Write a program (or programs) that prints a graphical representation of the disk arm travel, similar to the diagrams in the lecture slides.
Example: For

```
queue = 98, 183, 37, 122, 14, 124, 65, 67
head starts at 53
```

Print something like:

```
0...1...2...3...4...5...6...7...8...9...0...1...2...3...4...5...6...7...8...9...0
*53
*98
*37
*14
*65
*67
*122
*124
*183
```

Total head movement: 640 cylinders

What to submit
Submit the following to Canvas, **Assignment #7: Disk Scheduling Algorithms**.

- Source files (either C or C++) of your program.
- A text file of your program's output.

Rubric
Your submission will be graded according to these criteria:

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Max points</th>
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<tbody>
<tr>
<td>FCFS</td>
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<td>SSTF</td>
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