1. The design approach for our project utilizes many data structures and algorithms. We created structs to initialize integers necessary for producing the proper running job and time outputs, align with the text from the given input file, run first-in-first-out and shortest-job-first scheduling, and allow for jobs to be released when they request resources or release the resources they held. We then used the round robin algorithm in our main file in order to schedule and print what the output shows.

Dob 6 is running at time 41

Dob 1 is running at time 42

Dob 2 is running at time 44

Dob 3 is running at time 44

Dob 4 is running at time 44

Dob 4 is running at time 44

Dob 6 is running at time 44

Dob 6 is running at time 49

Dob 7 is running at time 49

Dob 7 is running at time 49

Dob 7 is running at time 51

Dob 7 is running at time 51

Dob 8 is running at time 51

Dob 8 is running at time 51

Dob 9 is running at time 51

Dob 1 is running at time 53

Dob 1 is running at time 56

Dob 1 is running at time 61

Dob 1 is running at time 66

Dob 1 is running at time 67

Dob 1 is running at time 68

Dob 1 is running at time 61

Dob 1 is running at time 63

Dob 1 is running at time 61

Dob 1 is running at time 68

Dob 1 is running at time 70

Dob 1 is running at time 80

Dob 1 is runnin

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Job 1 is running at time 90

Job 1 finished execution at time 91

Job 2 is running at time 91

Job 2 finished execution at time 92

Job 3 is running at time 92

Job 3 is running at time 93

Job 4 is running at time 93

Job 4 is running at time 93

Job 4 finished execution at time 94

Job 5 is running at time 94

Job 5 is running at time 94

Job 6 is running at time 95

Job 6 if inshed execution at time 95

Job 6 if inshed execution at time 96

kareenakeswani@wifi-roaming-128-4-111-229 cisc361 %
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3. We learned how to simulate an operating system's tasks involving deadlock and CPU scheduling. We also learned the importance of communication and collaboration when working on a team. We can improve on avoiding procrastination and sticking to one method of communication, rather than switching between apps to reach one another. In the future, we would like to try to make the code more readable and efficient since there are some lines that could be condensed.