

allen_take_off_time

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Overview:

The user will submit a file, opened up with the built-in open function, to the allen_take_off_time program. The program will take in input from a file, read the lines, and load a line of the file request into the constructor of the class. It will then pass those constructor values into a queue. Then it will write the results of the actual take off times to the command line for the user.

Design:

The main class will have a function called load_requests to take in input from a file, read the request lines with the readlines function, and load the file requests into the constructor of the class. The file request information that it needs to keep track of is the request identifier, request submission time, time slot requested, length of time requested, actual start time, actual end time. It will then load all of this information into a priority queue using the built-in priority queue module. As time moves forward the printed status of the queue will show the planes waiting for take off. Then the program will write the actual listing of take off times to the command line for the user.