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Issues: I have faced multiple problems while working on this assignmnet.

For example, the problem of undefining functions in the template queue. I have searched alot and found that it is because the compiler may overlook the functions in the .cpp files. One of the solutions was to just implement all the body of the function in the .h file. It has another solution which I used in the program, but it would have been much easier to implement the whole classes in the .h files

Here are the results of the program.
I read the data from files then pritned the final result after assigning mechanics into another files.

all of them are in the repo.

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Example 1:
Before sorting and sending to the queue
Ebram the mechanic is booked for Mai at 1 : 30
Omar the mechanic is booked for Soha at 1 : 30
Adham the mechanic is booked for Samia at 1 : 30
Tarek the mechanic is booked for Mena at 1 : 30
No slots found, pls get back to us soon

After inserting in the queue
Ebram the mechaninc is booked for Mai at 1 : 30
Omar the mechaninc is booked for Soha at 1 : 30
Adham the mechaninc is booked for Samia at 1 : 30
Tarek the mechaninc is booked for Mena at 1 : 30
Eslam could not find any suitable timing
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PS D:\SPRING 2023\CS 2\assignments\assignment 3> ./a.exe
Example 2:
Before sorting and sending to the queue
Ebram the mechanic is booked for Mai at 9 : 30
Omar the mechanic is booked for Soha at 14 : 30
Adham the mechanic is booked for Samia at 1 : 10
Tarek the mechanic is booked for Mena at 23 : 12
Omar the mechanic is booked for Eslam at 9 : 30

After inserting in the queue
Adham the mechaninc is booked for Samia at 1 : 10
Omar the mechaninc is booked for Eslam at 9 : 30
Ebram the mechaninc is booked for Mai at 9 : 30
Omar the mechaninc is booked for Soha at 14 : 30
Tarek the mechaninc is booked for Mena at 23 : 12
```