Assignment (2)

Report

Text

Description automatically generated

I make 2 arrays, a mechanic array, and a customer array.

I ask for the number of mechanics at first and then I fill in their names.

Then I ask for the number of customers then fill in their names and desired timings.

I then proceed to match them with a mechanic that is available at their required time.

Then I sort the array of customers according to their desired time and then push them in my queue. The queue is a simple dynamic array with pointers. One pointing at the very first element and is incremented every time I use pop function and the other pointer is pointing at the first empty cell in the back of the array and is incriminated every time I use push function. I also have an a getfront() function that returns the element at the very front so I can cout this element.

Lastly, I did not use any print functions of either classes but I only overridden them as the function print was declared as virtual and pure in the parent class. So I only override it so that I could instantiate objects of those classes.