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**Object Oriented Programming** 

**Professor Carpenter** 

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## Lab01 Schedule

The algorithm I used for this program utilized the indices of both arrays to match up the hours and activities. I stored the information from the text file into two arrays. One array had all the hours and the other had all the activities. After the schedule was saved, the user would be prompted to either search by number or activity. There was a for loop dedicated to each choice. Each for loop would go through the array and find the number or activity the user entered. This was done using a variable labelled "i". This is to keep track of the location in the array the match was found. Directly after the match was found, the value stored at the same index of the other array would be printed out. When saving the information from the text file, the order does not change. This means that the number and activity at each index of each array correspond.

```
File Edit Format View Help
Print a menu to prompt user for input
           option 0: Exit
option 1: Search by number
option 2: Search by activity
int main() {
            open the text file
           for loop to go through entire text file:

store time in the time array

store activity in the activity array
           take user input by calling printMenu function
           if user selected option 1:
                       prompt number from user:
store input from user
                       if user selected option 2:
prompt activity from user
store input from user
for loop to go through the activity array:
                                  check each activity until the right one is found cout the the number at the same index from the number array
                                                                                                                             100% Windows (CRLF) UTF-8
                                                                                                                                                                               X
                                  Sun Sep 22 15:15:19 2019 from 73.186
ring:-s cd 00P_Fall/
ring:-/00P_Falls /a_GUT
```