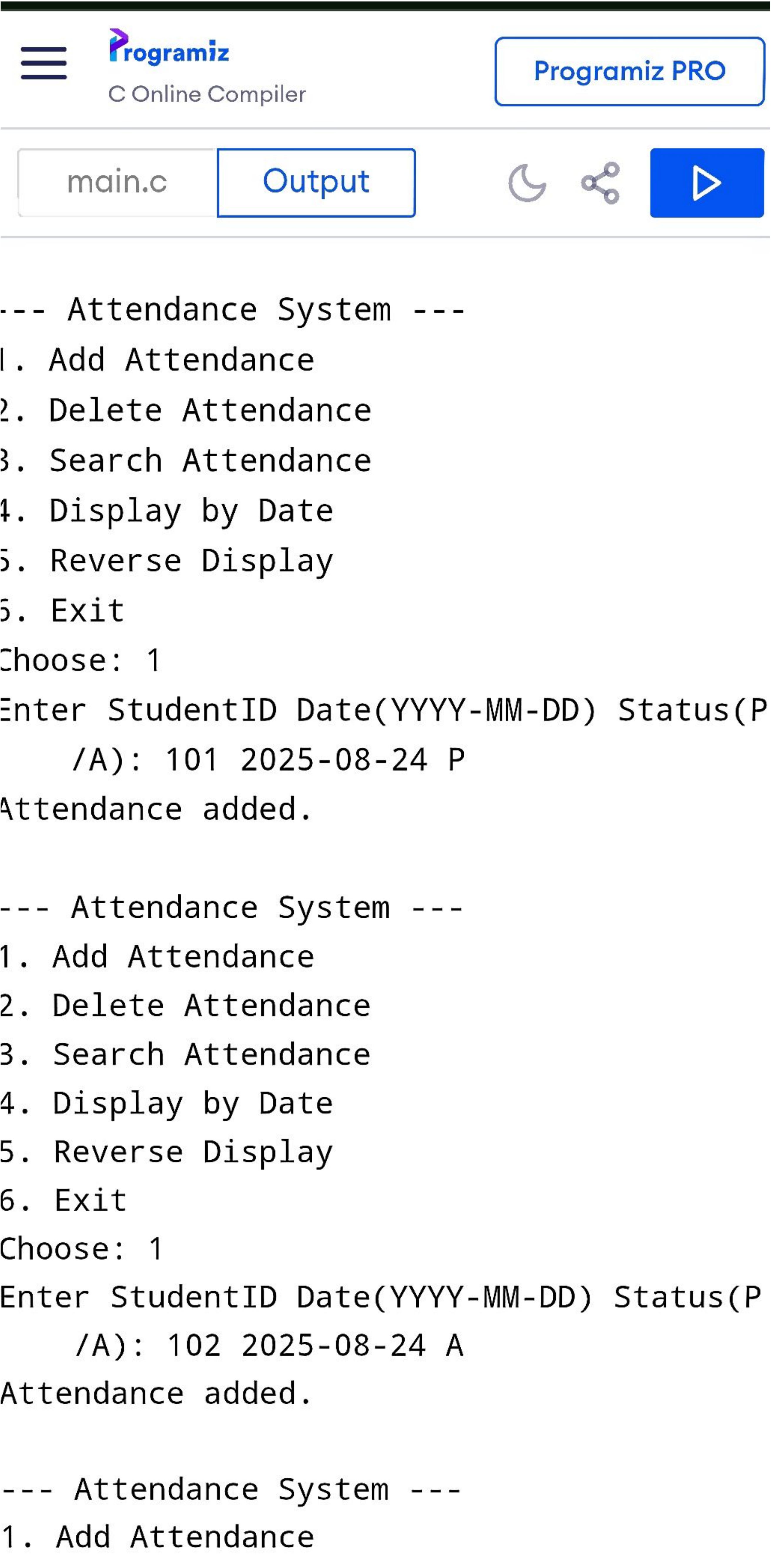
STUDENTS ATTENDACE MONITERING

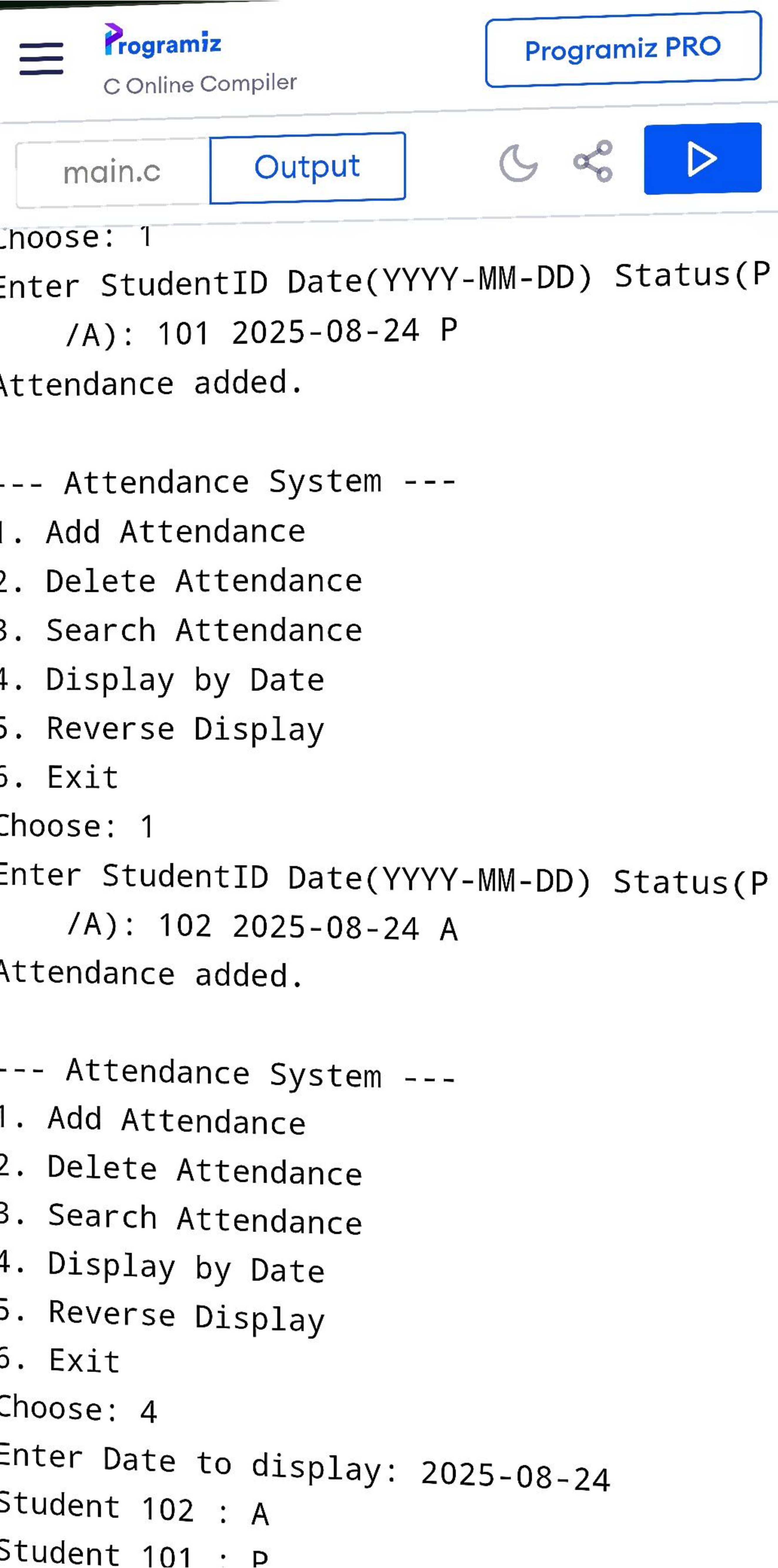
```
#include< stdio.h>
#include <stdlib.h>
# include < string.h>

Struct Attendance{
     int studentID;
       chardate [15];
      "2025-08-04"
       char status;
       Absent
       Struct Attendance *next;
       };
       Struct Attendance * CreateNode(int id, char* date,
char status) {
         Struct Attendance *
         newNode = (Struct Attendance*)malloc sizeof
 (Struct Attendance));
              newNode -> studentID = id ;
              Strcpy (newNode -> date . date);
              newNode->status = status;
              newNode -> next = NULL;
              return newNode;
              }
```

```
    Void addAttendance (struct Attendance* *head, int id,
char* date, char status) {
        Struct Attendance *newNode = createNode (id,
date, status);
            newNode->next = *head;
            *head = newNode;
        Printf ("Attendance added.\n");
            }

    Void deleteAttendance (struct Attendance **head, int id,
char* date) {
        Struct Attendance *temp = *head, *prev = NULL;
        While (temp != NULL && !
        (temp->studentID == id && strcmp
         (temp->date, date) == 0)) {
              prev = temp;
              temp = temp->next;
           }
         if (temp == NULL)
         {
         printf ("Record not found.\n");
         return;
         }
    if(prev = = NULL)
     *head= temp->next;
    ~~free (1~~
     else
      prev->next =temp->next;
      free(temp);
      printf("Record deleted.\n");
      }

  Void Search Attendance (struct Attendance*head,
int id, char * date)
    {
     While (head!=NULL)
     {
      if (head->studentID = = id && strcmp
     (head->date, date)= = 0){
      printf ("Found: student %d on %s = %c\n",
 id, date, head->Status);
        return;
     }
    head = head->next;
    }
    printf ("Record not found.\n")
     }
```

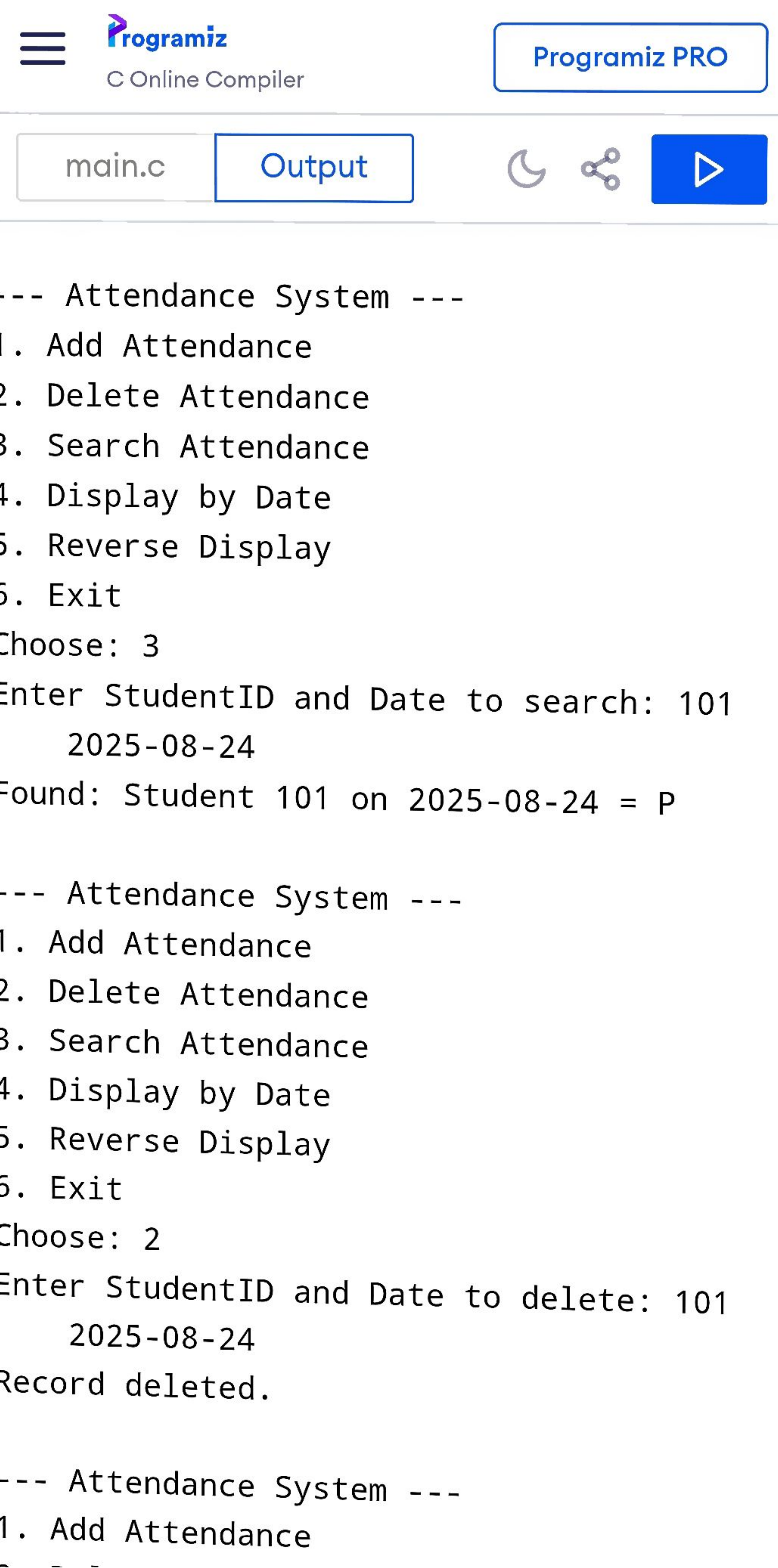
```
Void displayReverse (struct Attendance *head)
 {
   if (head = =NULL) return;
   displayReverse (head->next);
    printf ("%d |%s |%c\n", hedd-> studentID,
head->date, head->status);
     }
  int main() {

  struct Attendance * head = NULL;
  int choice, id;
  char date [15], Status;
   while(1) {
  printf ("\n---Attendance System---\n");
   printf ("1. Add Attendance\n 2
                   Delete Attendance\n
                   3. Search Attendance\n
                   4. Display bydate\n
                   5. Reverse Display\n
                   6. Exit\n

                    Choose:");

                  Scanf ("%d", &choice);

            if (choice = =1) {
      Printf ("Enter StudentID
    Date (YYYY-MM-DD) Status (P/A):");
  Scanf ("%d %s %c", &id, date, &status);
   addAttendance(& head, id ,date, status);
     }
    elseif (choice==2)
    {
    printf ("Enter Student ID and Date to delete:");
  Scanf ("%d %s",&id date);
  Search Attendance (head, id, date);
    }
   else if (choice==4) {
    printf (" Enter Date to display:");
    Scanf ("%s", date);
   displayByDate (head, date);
     }
    else if (choice==5)
    {
     printf ("Reverse Display: \n");
     display Reverse (head);
       }
     else if (choice==6)
    break;
   else printf (" invalid choice ! \n");
    }
   return 0; }
```



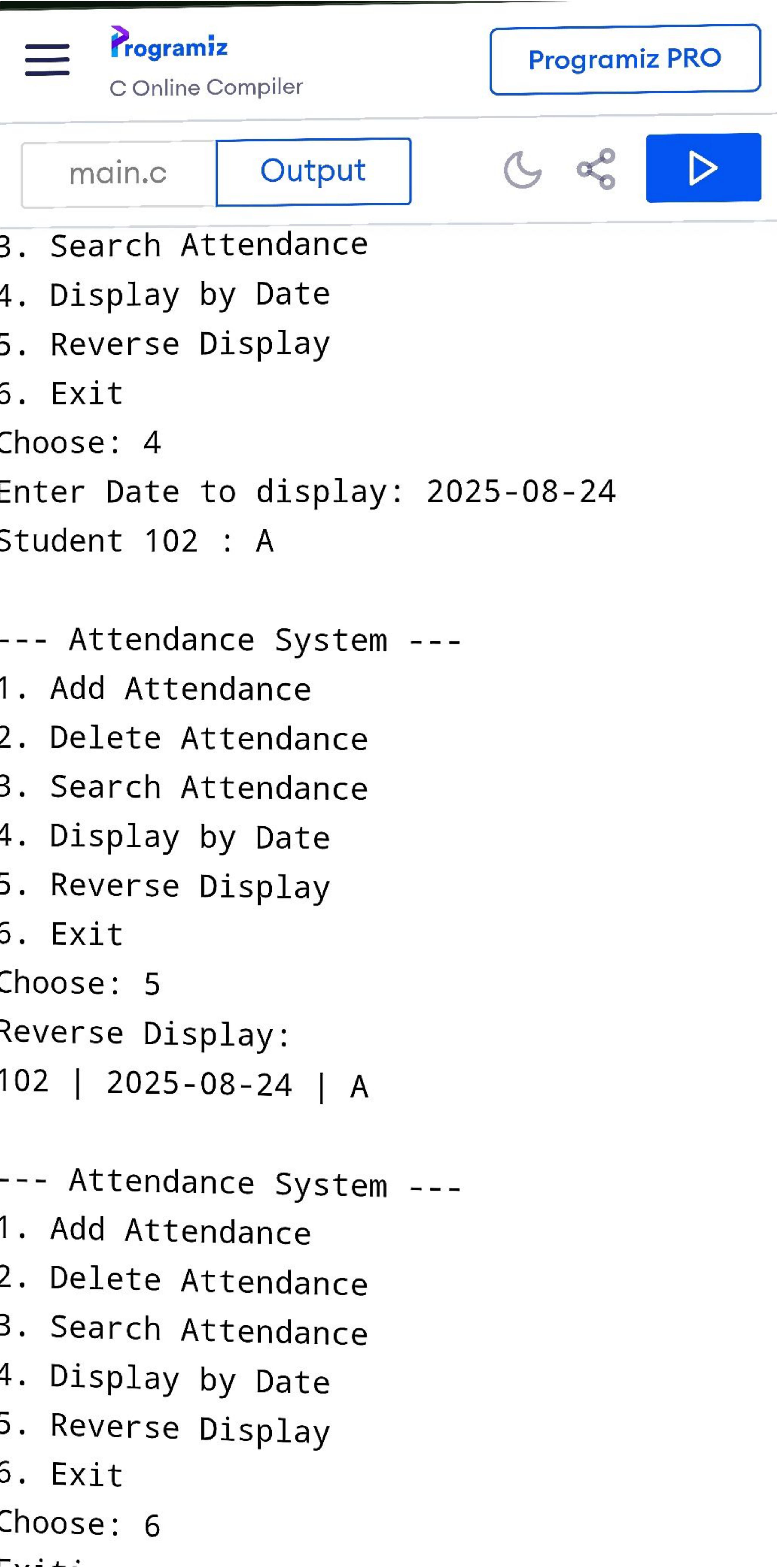
```
--- Attendance System ---
1. Add Attendance
2. Delete Attendance
3. Search Attendance
4. Display by Date
5. Reverse Display
6. Exit
Choose: 1
Enter StudentID Date(YYYY-MM-DD) Status(P
    /A): 101 2025-08-24 P
Attendance added.

--- Attendance System ---
1. Add Attendance
2. Delete Attendance
3. Search Attendance
4. Display by Date
5. Reverse Display
6. Exit
Choose: 1
Enter StudentID Date(YYYY-MM-DD) Status(P
    /A): 102 2025-08-24 A
Attendance added.

--- Attendance System ---
1. Add Attendance
```



```
Choose: 1
Enter StudentID Date(YYYY-MM-DD) Status(P
    /A): 101 2025-08-24 P
Attendance added.

--- Attendance System ---
1. Add Attendance
2. Delete Attendance
3. Search Attendance
4. Display by Date
5. Reverse Display
6. Exit
Choose: 1
Enter StudentID Date(YYYY-MM-DD) Status(P
    /A): 102 2025-08-24 A
Attendance added.

--- Attendance System ---
1. Add Attendance
2. Delete Attendance
3. Search Attendance
4. Display by Date
5. Reverse Display
6. Exit
Choose: 4
Enter Date to display: 2025-08-24
Student 102 : A
Student 101 : P
```



```
--- Attendance System ---
1. Add Attendance
2. Delete Attendance
3. Search Attendance
4. Display by Date
5. Reverse Display
6. Exit
Choose: 3
Enter StudentID and Date to search: 101
    2025-08-24
Found: Student 101 on 2025-08-24 = P

--- Attendance System ---
1. Add Attendance
2. Delete Attendance
3. Search Attendance
4. Display by Date
5. Reverse Display
6. Exit
Choose: 2
Enter StudentID and Date to delete: 101
    2025-08-24
Record deleted.

--- Attendance System ---
1. Add Attendance
```



```
3. Search Attendance
4. Display by Date
5. Reverse Display
6. Exit
Choose: 4
Enter Date to display: 2025-08-24
Student 102 : A

--- Attendance System ---
1. Add Attendance
2. Delete Attendance
3. Search Attendance
4. Display by Date
5. Reverse Display
6. Exit
Choose: 5
Reverse Display:
102 | 2025-08-24 | A

--- Attendance System ---
1. Add Attendance
2. Delete Attendance
3. Search Attendance
4. Display by Date
5. Reverse Display
6. Exit
Choose: 6
Exiti
```

GITHUB LINK

https://github.com/Janani-Enginner/code.git