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   main.c
              Output
                                          D
      #include <stdio.h>
      #include <stdlib.h>
      #include <string.h>
   4 struct Feedback {
          int studentID;
   5
          char courseCode[20];
   6
   7
          int rating;
          char comments[100];
   8
   9
          struct Feedback* next;
  10 };
  11
      struct Feedback* head = NULL;
  12 - struct Feedback* createNode(int id,
           char course[], int rating, char
          comments[]) {
           struct Feedback* newNode =
  13
               (struct Feedback*)malloc
1
               (sizeof(struct Feedback));
  14
          newNode->studentID = id;
  15
           strcpy(newNode->courseCode,
               course);
          newNode->rating = rating;
  16
  17
           strcpy(newNode->comments,
               comments);
  18
          newNode->next = NULL;
  19
           return newNode;
  20
  21 - void addFeedback(int id, char
                                        Run
           course[], int rating, cha
```

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  main.c
             Output
                                        D
         course[], int rating, char
         comments[]) {
         struct Feedback* newNode =
 22
              createNode(id, course, rating
              , comments);
         if (head == NULL) {
 23 -
 24
              head = newNode;
         } else {
 25 -
              struct Feedback* temp = head;
 26
 27
             while (temp->next != NULL)
 28
                  temp = temp->next;
 29
              temp->next = newNode;
 30
         }
         printf("Feedback added
 31
              successfully!\n");
32
33 - void displayFeedback() {
         if (head == NULL) {
 34 -
              printf("No feedback records
 35
                  available.\n");
 36
              return;
 37
         }
         struct Feedback* temp = head;
 38
         printf("\n---- Feedback Records
 39
              ---\n");
 40 -
         while (temp != NULL) {
 41 -
              printf("Student ID: %
                  Course: %s, Rating. //u,
```

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  main.c
             Output
                                         D
                  Course: %s, Rating: %d,
                  Comments: %s\n",
                      temp->studentID, temp
 42
                         ->courseCode, temp
                         ->rating, temp
                         ->comments);
 43
              temp = temp->next;
 44
         }
 45
 46 - void displayReverse(struct Feedback*
         node) {
 47
         if (node == NULL) return;
 48
         displayReverse(node->next);
         printf("Student ID: %d, Course:
 49 -
              %s, Rating: %d, Comments:
              %s\n",
 50
                 node->studentID, node
                      ->courseCode, node
                      ->rating, node
                      ->comments);
 51
 52 - void searchByStudentID(int id) {
         struct Feedback* temp = head;
 53
         int found = 0;
 54
         while (temp != NULL) {
 55 -
 56 -
              if (temp->studentID == id) {
                  printf("Found ->
 57 -
                                       Run
                       ID: %d, Course.
```

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  main.c
             Output
                                        D
                      Rating: %d, Comments:
                      %s\n",
                         temp->studentID,
 58
                        temp->courseCode,
                        temp->rating, temp
                         ->comments);
                  found = 1;
 59
 60
              }
 61
              temp = temp->next;
 62
         }
         if (!found) printf("No feedback
 63
              found for Student ID %d\n",
              id);
 64
 65 - void searchByCourse(char course[]) {
         struct Feedback* temp = head;
 66
 67
         int found = 0;
 68 -
         while (temp != NULL) {
 69 -
              if (strcmp(temp->courseCode,
                  course) == 0) {
 70 -
                  printf("Found -> Student
                      ID: %d, Course: %s,
                      Rating: %d, Comments:
                      %s\n",
 71
                         temp->studentID,
                        temp->courseCode,
                        temp->ratin
                         ->comments),
```

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  main.c
             Output
                                         D
                  found = 1;
 72
 73
 74
              temp = temp->next;
 75
         }
 76
         if (!found) printf("No feedback
              found for course %s\n",
              course);
 77
 78 - void averageRating(char course[]) {
 79
          struct Feedback* temp = head;
         int sum = 0, count = 0;
 80
         while (temp != NULL) {
 81 -
              if (strcmp(temp->courseCode,
 82 -
                  course) == 0) {
 83
                  sum += temp->rating;
 84
                  count++;
 85
 86
              temp = temp->next;
 87
          }
         <u>if</u> (count == 0) {
 88 -
              printf("No feedback for
 89
                  course %s\n", course);
 90 -
         } else {
              printf("Average rating for %s
 91
                   : %.2f\n", course, (float
                  )sum / count);
 92
         }
                                       Run
 93
     }
```

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   main.c
              Output
                                         D
  94 - struct Feedback* cloneList(struct
          Feedback* head) {
          if (head == NULL) return NULL;
  95
          struct Feedback* newHead = NULL,
  96
               *tail = NULL;
          struct Feedback* temp = head;
  97
  98 -
          while (temp != NULL) {
               struct Feedback* newNode =
  99
                   createNode(temp
                   ->studentID, temp
                   ->courseCode, temp
                   ->rating, temp->comments
                   );
               if (newHead == NULL) {
 100 -
 101
                   newHead = newNode;
102
                   tail = newNode;
 103 -
               } else {
 104
                   tail->next = newNode;
                   tail = newNode;
 105
 106
               }
 107
               temp = temp->next;
          }
 108
          return newHead;
 109
 110
      }
 111
112 - int main() {
          int choice, id, rating;
 113
                                        Run
 114
          char course[20], comments[100];
```



















