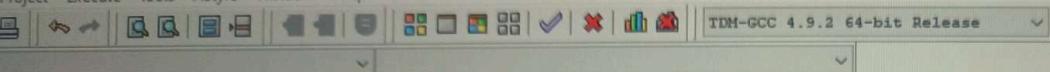


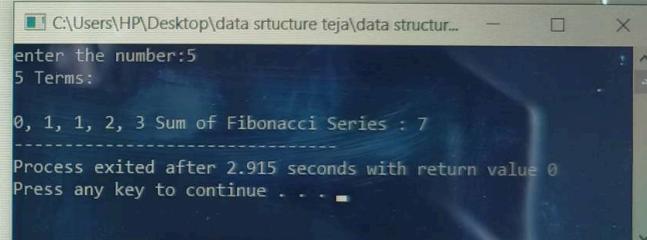
structure teja\data structure sum of fibino series 3.cpp - [Executing] - Dev-C++ 5.11

Project Execute Tools AStyle Window Help



data structure sum of fibino series 3.cpp

```
1 #include <stdio.h>
2 #include <math.h>
3 int main()
4 {
5     int f1,f2,f3,n,i=2,s=1;
6     f1=0;
7     f2=1;
8     printf("enter the number:");
9     scanf("%d",&n);
10    printf("%d Terms:\n",n);
11    printf("%d, %d",f1,f2);
12    while(i<n)
13    {
14        f3=f1+f2;
15        printf(", %d",f3);
16        f1=f2;
17        f2=f3;
18        s=s+f3;
19        i++;
20    }
21    printf(" Sum of Fibonacci Series : %d",s);
22    return 0;
23 } public int __cdecl printf (const char * __restrict__ __Format, ...)
```



Compile Log Debug Find Results Close

Compilation results...

```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\Desktop\data srtucture teja\data structure sum of fibino series 3.exe
- Output Size: 128.642578125 KiB
- Compilation Time: 0.33s
```

data structure teja\data structure sum of fibino series 3.cpp - [Executing] - Dev-C++ 5.11

Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

data structure sum of fibino series 3.cpp

```
1 #include <stdio.h>
2 #include <math.h>
3 int main()
4 {
5     int f1,f2,f3,n,i=2,s=1;
6     f1=0;
7     f2=1;
8     printf("enter the number:");
9     scanf("%d",&n);
10    printf("%d Terms:\n\n",n);
11    printf("%d, %d",f1,f2);
12    while(i<n)
13    {
14        f3=f1+f2;
15        printf(", %d",f3);
16        f1=f2;
17        f2=f3;
18        s=s+f3;
19        i++;
20    }
21    printf(" Sum of Fibonacci Series : %d",s);
22    return 0;
23 }
```

public int \_\_cdecl printf (const char \* \_\_restrict\_\_ \_Format, ...)

C:\Users\HP\Desktop\data srtucture teja\data structure sum of fibino series 3.exe

enter the number:5

5 Terms:

0, 1, 1, 2, 3 Sum of Fibonacci Series : 7

Process exited after 2.915 seconds with return value 0

Press any key to continue . . .

Sources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\Desktop\data srtucture teja\data structure sum of fibino series 3.exe
- Output Size: 128.642578125 KiB
- Compilation Time: 0.33s

Set 0 Lines: 25 Length: 479 Insert Done parsing in 0.016 seconds

to search 37°C Partly cloudy

File name include data structure odd and even 3.cpp - [Executing] - Dev-C++ 5.11

View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

Debug data structure sum of fibino series 3.cpp data odd and even 3.cpp

```
1 #include <stdio.h>
2 int main()
3 {
4     int n;
5     printf("Enter number: ");
6     scanf("%d", &n);
7     int arr[n];
8     printf(" %d element: ",n);
9     for(int i=0;i<n;i++)
10    {
11        |    scanf("%d",&arr[i]);
12    }
13    printf("Even number: ");
14    for(int i=0;i<n;i++)
15    {
16        |        if(arr[i]%2==0)
17        |            printf("%d ", arr[i]);
18    }
19    printf("Odd numbers: ");
20    for(int i=0;i<n;i++)
21    {
22        |        if(arr[i]%2==1)
23        |            printf("%d ", arr[i]);
24    }
25 }
```

C:\Users\HP\Desktop\data srtucture teja\data ...

Enter number: 6  
6 element: 4  
5  
6  
7  
8  
9  
Even number: 4 6 8 Odd numbers: 5 7 9

Process exited after 10.51 seconds with return value 0  
Press any key to continue . . .

Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0  
- Warnings: 0  
- Output Filename: C:\Users\HP\Desktop\data srtucture teja\data odd and even 3.exe  
- Output Size: 128.125 KiB  
- Compilation Time: 0.28s

Project Execute Tools AStyle Window Help

data structure sum of fibino series 3.cpp | data odd and even 3.cpp | location of the element in an element.cpp

```
1 #include <stdio.h>
2 #include <conio.h>
3 int main()
4 {
5     int arr[10],i,n,k;
6     printf("Enter array size: ");
7     scanf("%d", &n);
8     printf("Enter array elements: ");
9     for(i=0; i<n; i++)
10    {
11        scanf("%d",&arr[i]);
12    }
13    printf("Enter element to search: ");
14    scanf("%d", &k);
15
16    for(i=0; i<n; i++)
17    {
18        if(arr[i]==k)
19        {
20            printf("%d found at position %d", k, i+1);
21            return 0;
22        }
23    }
24
25    printf("Element not found");
26 }
```

C:\Users\HP\Desktop\data srtucture teja\location of the ele... -

```
Enter array size: 4
Enter array elements: 5
6
7
8
Enter element to search: 7
7 found at position 3
-----
Process exited after 13.58 seconds with return value 0
Press any key to continue . . .
```

sources Compile Log Debug Find Results Close

Compilation results...

```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\Desktop\data srtucture teja\location of the element in an element.exe
- Output Size: 128.642578125 KiB
- Compilation Time: 0.34s
```

data structure teja\registration nuber.cpp [Executing] - Dev-C++ 5.11

View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

bug

data structure sum of fibino series 3.cpp data odd and even 3.cpp location of the element in an element.cpp registration nuber.cpp

```
1 #include <stdio.h>
2 #define MAX_STUDENTS 100
3 int findRegno(int regno, int arr[], int size) {
4     for (int i = 0; i < size; i++) {
5         if (arr[i] == regno) {
6             return i;
7         }
8     }
9     return -1;
10 }
11 int main() {
12     int studentRegno[MAX_STUDENTS];
13     int noOfStudents;
14     printf("Enter the no of students: ");
15     scanf("%d", &noOfStudents);
16     printf("Enter the reg no of students:\n");
17     for (int i = 0; i < noOfStudents; i++) {
18         scanf("%d", &studentRegno[i]);
19     }
20     int searchRegno;
21     printf("Enter the regno to search for: ");
22     scanf("%d", &searchRegno);
23     int foundIndex = findRegno(searchRegno, studentRegno, noOfStudents);
24     if (foundIndex != -1) {
25         printf("Reg no %d found at index %d.\n", searchRegno, foundIndex);
26     } else {
27         printf("Reg no %d not found.\n", searchRegno);
28     }
29 }
30 }
```

C:\Users\HP\Desktop\data srtucture teja\registrat... Enter the no of students: 4  
Enter the reg no of students:  
123456  
234567  
345678  
456789  
Enter the regno to search for: 234567  
Reg no 234567 found at index 1.  
-----  
Process exited after 27.16 seconds with return value 0  
Press any key to continue . . .

resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0  
- Warnings: 0  
- Output Filename: C:\Users\HP\Desktop\data srtucture teja\registration nuber.exe  
- Output Size: 129.3271484375 KiB  
- Compilation Time: 0.31s

1 Sek: 0 Lines: 31 Length: 891 Insert Done parsing in 0.016 seconds

Project Execute Tools Asyste TDM-GCC 4.9.2 64-bit Release

data structure sum of fibino series 3.cpp data odd and even 3.cpp location of the element in an element.cpp registration nuber.cpp merging.cpp

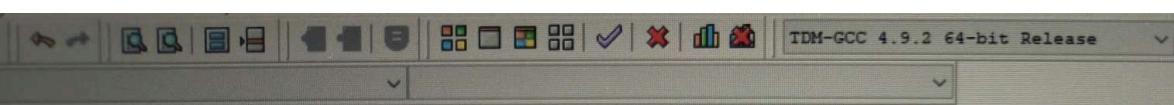
```
1 #include <stdio.h>
2 #include <stdlib.h>
3 int* mergeArrays(int arr1[], int size1, int arr2[], int size2) {
4     int* mergedArray = (int*)malloc((size1 + size2) * sizeof(int));
5     if (!mergedArray) {
6         printf("Memory allocation failed.\n");
7         exit(EXIT_FAILURE);
8     }
9     int i, j, k;
10    i = j = k = 0;
11    while (i < size1 && j < size2) {
12        if (arr1[i] < arr2[j]) {
13            mergedArray[k++] = arr1[i++];
14        } else {
15            mergedArray[k++] = arr2[j++];
16        }
17    }
18    while (i < size1) {
19        mergedArray[k++] = arr1[i++];
20    }
21    while (j < size2) {
22        mergedArray[k++] = arr2[j++];
23    }
24    return mergedArray;
25 }
26 int main() {
27     int arr1[] = {1, 3, 5, 7};
28     int size1 = sizeof(arr1) / sizeof(arr1[0]);
29     int arr2[] = {2, 4, 6, 8};
30     int size2 = sizeof(arr2) / sizeof(arr2[0]);
31     int* mergedArray = mergeArrays(arr1, size1, arr2, size2);
32     printf("Merged Array: ");
33     for (int i = 0; i < size1 + size2; i++) {
34         printf("%d ", mergedArray[i]);
35     }
36     free(mergedArray);
37     return 0;
38 }
```

C:\Users\HP\Desktop\data srtucture teja\merging... Merged Array: 1 2 3 4 5 6 7 8  
Process exited after 0.06755 seconds with return value 0  
Press any key to continue . . .

sources Compile Log Debug Find Results Close

Compilation results...

```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\Desktop\data srtucture teja\merging.exe
- Output Size: 129.1396484375 KiB
- Compilation Time: 0.41s
```



```
1 #include <stdio.h>
2 #define MAX_SIZE 100
3 int main() {
4     int arr[MAX_SIZE];
5     int size, i, j;
6     printf("Enter the size of the array (max %d): ", MAX_SIZE);
7     scanf("%d", &size);
8     printf("Enter %d elements of the array: ", size);
9     for (i = 0; i < size; i++) {
10         scanf("%d", &arr[i]);
11     }
12     printf("Duplicate elements in the array: ");
13     for (i = 0; i < size; i++) {
14         for (j = i + 1; j < size; j++) {
15             if (arr[i] == arr[j]) {
16                 printf("%d ", arr[i]);
17                 break;
18             }
19         }
20     }
21     printf("\n");
22     return 0;
23 }
```

A screenshot of a terminal window titled "C:\Users\HP\Desktop\data srtucture teja\duplicat...". It shows the output of a C program. The user enters the size of the array as 6 and the elements as 2, 3, 3, 2, 5, 4. The program then prints out the duplicate elements, which are 2 and 3. Finally, it exits with a return value of 0.

Compile Log Debug Find Results Close

ilation results...

```
cores: 0
warnings: 0
exit Filename: C:\Users\HP\Desktop\data srtucture teja\duplicates in an array.exe
exit Size: 129.2998046875 KiB
exit Elation Time: 0.31s
```

Lines: 24 Length: 617 Insert Done parsing in 0.015 seconds

(data srtucture teja\valid string.cpp - [Executing] - Dev-C++ 5.11

File Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

data structure sum of fibino series 3.cpp | data odd and even 3.cpp | location of the element in an element.cpp | registration nuber.cpp | merging.cpp | [\*] duplicates in an array.cpp | [\*] valid string.cpp

```
1 #include <stdio.h>
2 #include <ctype.h>
3 int isValidString(const char* str) {
4     if (str == NULL || *str == '\0') {
5         return 0;
6     }
7     while (*str) {
8         if (!isalnum(*str)) {
9             return 0;
10        }
11        str++;
12    }
13    return 1;
14 }
15 int main() {
16     char inputString[100];
17     printf("Enter a string: ");
18     scanf("%99s", inputString);
19     if (isValidString(inputString)) {
20         printf("The string is valid.\n");
21     } else {
22         printf("The string is not valid.\n");
23     }
24     return 0;
25 }
```

C:\Users\HP\Desktop\data srtucture teja\valid string.exe

Enter a string: sai  
The string is valid.

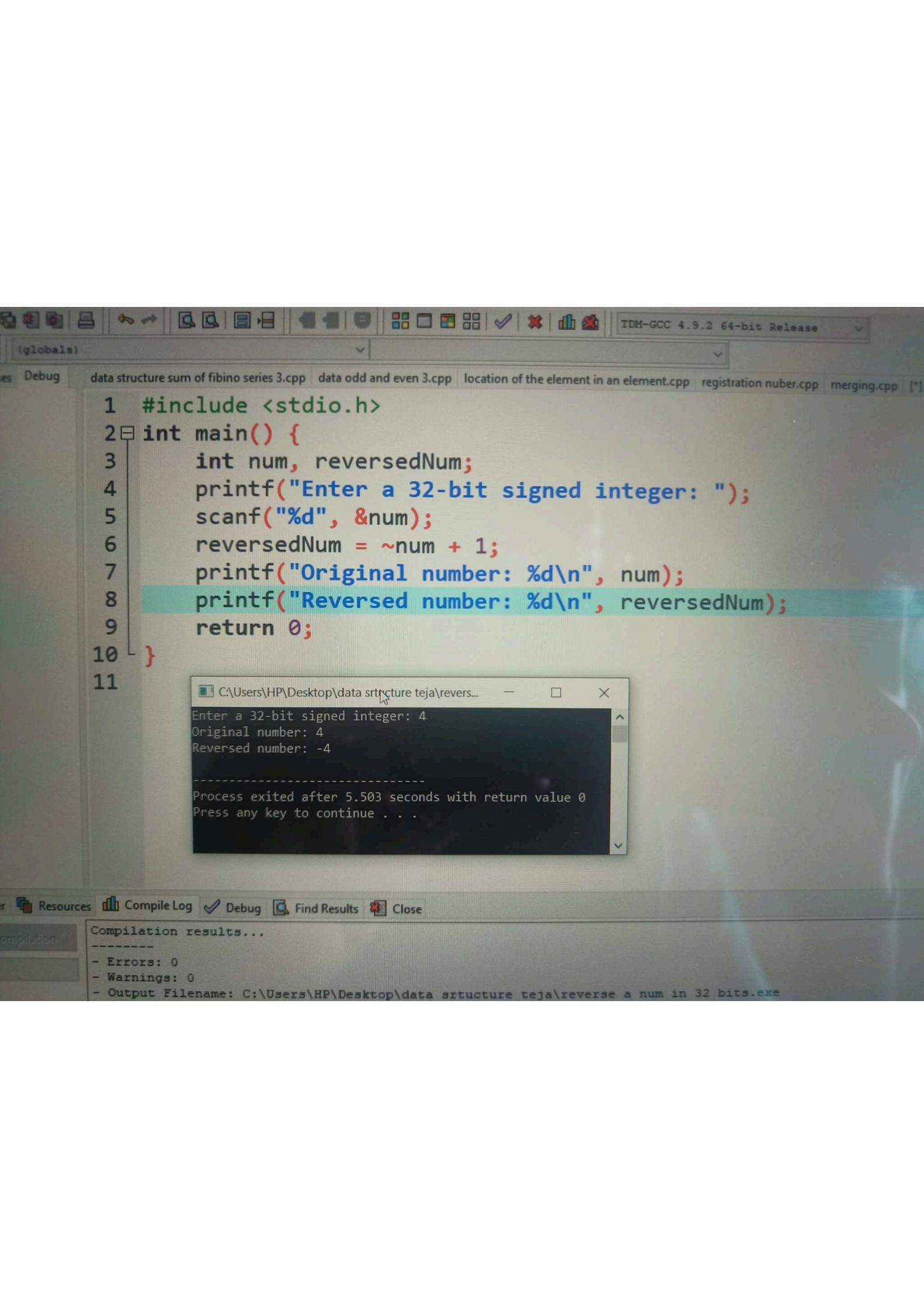
Process exited after 4.794 seconds with return value 0  
Press any key to continue . . .

Sources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0  
- Warnings: 0  
- Output Filename: C:\Users\HP\Desktop\data srtucture teja\valid string.exe  
- Output Size: 129.98046875 KiB  
- Compilation Time: 0.38s

Sel: 0 Lines: 26 Length: 550 Insert Done parsing in 0.047 seconds



A screenshot of a Windows desktop environment showing a terminal window and a code editor.

The terminal window (cmd) shows the following output:

```
C:\Users\HP\Desktop\data structure teja\revers... -> Enter a 32-bit signed integer: 4
Original number: 4
Reversed number: -4

Process exited after 5.503 seconds with return value 0
Press any key to continue . . .
```

The code editor (TDM-GCC 4.9.2 64-bit Release) displays the following C code:

```
1 #include <stdio.h>
2 int main() {
3     int num, reversedNum;
4     printf("Enter a 32-bit signed integer: ");
5     scanf("%d", &num);
6     reversedNum = ~num + 1;
7     printf("Original number: %d\n", num);
8     printf("Reversed number: %d\n", reversedNum);
9     return 0;
10 }
11
```

The tabs at the bottom of the code editor include: Debug, data structure sum of fibino series 3.cpp, data odd and even 3.cpp, location of the element in an element.cpp, registration nuber.cpp, and merging.cpp.

Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

data structure sum of fibino series 3.cpp    data odd and even 3.cpp    location of the element in an element.cpp    [\*] reverse a num in 32 bits.cpp    registration nuber.cpp    merging.cpp    matrix multiplication.cpp

```

1 #include <stdio.h>
2 #define MAX_SIZE 10
3 void mulp(int mat1[][MAX_SIZE], int mat2[][MAX_SIZE], int result[][MAX_SIZE], int rows1, int cols1, int cols2) {
4     int i, j, k;
5     for (i = 0; i < rows1; i++) {
6         for (j = 0; j < cols2; j++) {
7             result[i][j] = 0;
8             for (k = 0; k < cols1; k++) {
9                 result[i][j] += mat1[i][k] * mat2[k][j];
10            }
11        }
12    }
13 }
14 void displayMatrix(int matrix[][MAX_SIZE], int rows, int cols) {
15     int i, j;
16     for (i = 0; i < rows; i++) {
17         for (j = 0; j < cols; j++) {
18             printf("%d ", matrix[i][j]);
19         }
20         printf("\n");
21     }
22 }
23 int main() {
24     int mat1[MAX_SIZE][MAX_SIZE], mat2[MAX_SIZE][MAX_SIZE], result[MAX_SIZE][MAX_SIZE];
25     int rows1, cols1, rows2, cols2;
26     int i, j;
27     printf("Enter row and col: ");
28     scanf("%d %d", &rows1, &cols1);
29     printf("Enter elements of the first matrix:\n");
30     for (i = 0; i < rows1; i++) {
31         for (j = 0; j < cols1; j++) {
32             scanf("%d", &mat1[i][j]);
33         }
34     }

```

C:\Users\HP\Desktop\data srtucture teja\matrix multiplication.exe

Enter row and col: 2  
2  
Enter elements of the first matrix:  
2  
2  
2  
Enter second matrix: 2  
2  
2  
3  
Resultant matrix:  
8 10  
8 10

Process exited after 19.59 seconds with return value 0  
Press any key to continue . . .

Sources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0  
- Warnings: 0  
- Output Filename: C:\Users\HP\Desktop\data srtucture teja\matrix multiplication.exe  
- Output Size: 131.05078125 KiB  
- Compilation Time: 0.33s

41 Sel: 0 Lines: 52 Length: 1568 Insert Done parsing in 0 seconds

here to search 37°C Partly sunny

structure teja\matrix multiplication.cpp - [Executing] - Dev-C++ 5.11

Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

data structure sum of fibino series 3.cpp data odd and even 3.cpp location of the element in an element.cpp registration nuber.cpp merging.cpp matrix multiplication.cpp

[!] valid string.cpp [\*] reverse a num in 32 bits.cpp

```
20     printf("\n");
21 } public int __cdecl printf (const char * __restrict__ _Format, ...)
22 }
23 int main() {
24     int mat1[MAX_SIZE][MAX_SIZE], mat2[MAX_SIZE][MAX_SIZE], result[MAX_SIZE][MAX_SIZE];
25     int rows1, cols1, rows2, cols2;
26     int i, j;
27     printf("Enter row and col: ");
28     scanf("%d %d", &rows1, &cols1);
29     printf("Enter elements of the first matrix:\n");
30     for (i = 0; i < rows1; i++) {
31         for (j = 0; j < cols1; j++) {
32             scanf("%d", &mat1[i][j]);
33         }
34     }
35     printf("Enter second matrix: ");
36     scanf("%d %d", &rows2, &cols2);
37     if (cols1 != rows2) {
38         printf("mulnot possible");
39         return 1;
40     }
41     printf("Enter elements of the second matrix:\n");
42     for (i = 0; i < rows2; i++) {
43         for (j = 0; j < cols2; j++) {
44             scanf("%d", &mat2[i][j]);
45         }
46     }
47     mulp(mat1, mat2, result, rows1, cols1, cols2);
48     printf("Resultant matrix:\n");
49     displayMatrix(result, rows1, cols2);
50     return 0;
51 }
```

C:\Users\HP\Desktop\data srtucture teja\matrix multiplication.cpp

Enter row and col: 2  
Enter elements of the first matrix:  
2  
2  
2  
2  
Enter second matrix: 2  
2  
2  
2  
Resultant matrix:  
8 10  
8 10

Process exited after 19.59 seconds with return value 0  
Press any key to continue . . .

Compile Log Debug Find Results Close

Compilation results...

```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\Desktop\data srtucture teja\matrix multiplication.exe
- Output Size: 131.05078125 KiB
- Compilation Time: 0.33s
```

C:\Users\HP\Desktop\data srtucture teja\rows and columns in an array.cpp - [Executing] - Dev-C++ 3.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug data structure sum of fibino series 3.cpp data odd and even 3.cpp location of the element in an element.cpp [\*] valid string.cpp [\*] reverse a num in 32 bits.cpp matrix m

```
1 #include <stdio.h>
2 int main() {
3     int array[3][4] = {
4         {1, 2, 3, 4},
5         {5, 6, 7, 8},
6         {9, 10, 11, 12}
7     };
8     int rows = sizeof(array) / sizeof(array[0]);
9     int columns = sizeof(array[0]) / sizeof(array[0][0]);
10    printf("Number of rows: %d\n", rows);
11    printf("Number of columns: %d\n", columns);
12    return 0;
13 }
14
```

C:\Users\HP\Desktop\data srtucture teja\rows an... Number of rows: 3  
Number of columns: 4  
  
Process exited after 0.05897 seconds with return value 0  
Press any key to continue . . .

Compiler Resources Compile Log Debug Find Results Close

Compilation results...  
----  
- Errors: 0  
- Warnings: 0  
- Output Filename: C:\Users\HP\Desktop\data srtucture teja\rows and columns in an array.exe  
- Output Size: 127.9638671875 KiB  
- Compilation Time: 0.38s

data structure teja\array operations.cpp - [Executing] - Dev-C++ 5.11

Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

data structure sum of fibino series 3.cpp    data odd and even 3.cpp    location of the element in an element.cpp    registration nuber.cpp  
 [\*] valid string.cpp    [\*] reverse a num in 32 bits.cpp    matrix multiplication.cpp    rows and columns in an array.cpp  
 merging...

```

data structure sum of fibino series 3.cpp           data odd and even 3.cpp           location of the element in an element.cpp           registration nuber.cpp
[*] valid string.cpp   [*] reverse a num in 32 bits.cpp   matrix multiplication.cpp   rows and columns in an array.cpp
merging...
```

```

1 #include <stdio.h>
2 #include <stdlib.h>
3 void insertElement(int **arr, int *size, int element) {
4     (*size)++;
5     *arr = (int *)realloc(*arr, (*size) * sizeof(int));
6     (*arr)[(*size) - 1] = element;
7     printf("Element %d inserted at index %d.\n", element, (*size) - 1);
8 }
9 void deleteElement(int **arr, int *size, int index) {
10    if (index < 0 || index > *size) {
11        printf("Invalid index! Deletion failed.\n");
12        return;
13    }
14    int i;
15    for (i = index; i < (*size) - 1; i++) {
16        (*arr)[i] = (*arr)[i + 1];
17    }
18    (*size]--;
19    *arr = (int *)realloc(*arr, (*size) * sizeof(int));
20    printf("Element at index %d deleted.\n", index);
21 }
22 void displayArray(int *arr, int size) {
23    if (size == 0) {
24        printf("The array is empty.\n");
25        return;
26    }
27    printf("Array elements: ");
28    for (int i = 0; i < size; i++) {
29        printf("%d ", arr[i]);
30    }
31    printf("\n");
32 }
33 int main() {
34     int arr[100];
35 }
```

-- Array Operations Menu --  
 1. Insert element  
 2. Delete element by index  
 3. Display array  
 0. Exit  
 Enter your choice: 1  
 Enter the element to insert: 35  
 Element 35 inserted at index 0.

-- Array Operations Menu --  
 1. Insert element  
 2. Delete element by index  
 3. Display array  
 0. Exit  
 Enter your choice: -

resources Compile Log Find Results Close

Compilation results...  
 -----  
 - Errors: 0  
 - Warnings: 0  
 - Output Filename: C:\Users\HP\Desktop\data structure teja\array operations.exe  
 - Output Size: 130.75390625 KiB  
 - Compilation Time: 0.34s

6 Sek 0 Lines: 70 Length: 2117 Insert Done parsing in 0.015 seconds

data structure teja\array operations.cpp - [Executing] - Dev-C++ 5.11

File Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

data structure sum of fibino series 3.cpp    data odd and even 3.cpp    location of the element in an element.cpp    registration nuber.cpp    rows and columns in an array.cpp

["\*] valid string.cpp    ["\*] reverse a num in 32 bits.cpp

```

31 }
32 }
33 int main() {
34     int *arr = NULL;
35     int size = 0;
36     int choice, element, index;
37     do {
38         printf("\n-- Array Operations Menu --\n");
39         printf("1. Insert element\n");
40         printf("2. Delete element by index\n");
41         printf("3. Display array\n");
42         printf("0. Exit\n");
43         printf("Enter your choice: ");
44         scanf("%d", &choice);
45         switch (choice) {
46             case 1:
47                 printf("Enter the element to insert: ");
48                 scanf("%d", &element);
49                 insertElement(&arr, &size, element);
50                 break;
51             case 2:
52                 printf("Enter the index to delete element: ");
53                 scanf("%d", &index);
54                 deleteElement(&arr, &size, index);
55                 break;
56             case 3:
57                 displayArray(arr, size);
58                 break;
59             case 0:
60                 printf("Exiting the program.\n");
61                 break;
62             default:
63                 printf("Invalid choice. Please try again.\n");
64                 break;
65         }
66     } while (choice != 0);

```

C:\Users\HP\Desktop... -- Array Operations Menu --  
1. Insert element  
2. Delete element by index  
3. Display array  
0. Exit  
Enter your choice: 1  
Enter the element to insert: 35  
Element 35 inserted at index 0.  
-- Array Operations Menu --  
1. Insert element  
2. Delete element by index  
3. Display array  
0. Exit  
Enter your choice:

Resources Compile Log Debug Find Results Close

Compilation results...  
-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: C:\Users\HP\Desktop\data srtucture teja\array operations.exe  
- Output Size: 130.75390625 KiB  
- Compilation Time: 0.34s

C:\Users\HP\Desktop\data structure teja\array operations.cpp - [Executing] - Dev-C++ 5.11

File Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug

data structure sum of fibino series 3.cpp data odd and even 3.cpp location of the element in an element.cpp registration number.cpp  
[\*] valid string.cpp [\*] reverse a num in 32 bits.cpp matrix multiplication.cpp rows and columns in an array.cpp

int size = 8;  
int choice, element, index;  
do {  
 printf("\n-- Array Operations Menu --\n");  
 printf("1. Insert element\n");  
 printf("2. Delete element by index\n");  
 printf("3. Display array\n");  
 printf("0. Exit\n");  
 printf("Enter your choice: ");  
 scanf("%d", &choice);  
 switch (choice) {  
 case 1:  
 printf("Enter the element to insert: ");  
 scanf("%d", &element);  
 insertElement(arr, &size, element);  
 break;  
 case 2:  
 printf("Enter the index to delete element: ");  
 scanf("%d", &index);  
 deleteElement(arr, &size, index);  
 break;  
 case 3:  
 displayArray(arr, size);  
 break;  
 case 0:  
 printf("Exiting the program.\n");  
 break;  
 default:  
 printf("Invalid choice. Please try again.\n");  
 break;  
 }  
} while (choice != 0);  
free(arr);  
return 0;

-- Array Operations Menu --  
1. Insert element  
2. Delete element by index  
3. Display array  
0. Exit  
Enter your choice: 1  
Enter the element to insert: 35  
Element 35 inserted at index 0.  
-- Array Operations Menu --  
1. Insert element  
2. Delete element by index  
3. Display array  
0. Exit  
Enter your choice:

Compiler Resources Compile Log Debug Find Results Close

Compilation results...  
-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: C:\Users\HP\Desktop\data structure teja\array operations.exe  
- Output Size: 130.75390625 KiB  
- Compilation Time: 0.34s

Desktop\data srtucture teja\linear search.cpp - [Executing] - Dev-C++ 5.11

Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Debug

data structure sum of fibino series 3.cpp    data odd and even 3.cpp    location of the element in an element.cpp    registration nuber.cpp  
[\*] valid string.cpp    [\*] reverse a num in 32 bits.cpp    matrix multiplication.cpp    rows and columns in an array.cpp

```
1 #include <stdio.h>
2 int linearSearch(int arr[], int n, int target) {
3     for (int i = 0; i < n; i++) {
4         if (arr[i] == target) {
5             return i;
6         }
7     }
8     return -1;
9 }
10 int main() {
11     int arr[] = {4, 7, 2, 10, 5, 9, 3};
12     int n = sizeof(arr) / sizeof(arr[0]);
13     int target = 5;
14     int result = linearSearch(arr, n, target);
15     if (result != -1) {
16         printf("Element found at index %d.\n", result);
17     } else {
18         printf("Element not found in the array.\n");
19     }
20     return 0;
21 }
22
```

C:\Users\HP\Desktop\data srtucture teja\linear s... Element found at index 4.

Process exited after 0.05836 seconds with return value 0

Press any key to continue . . .

Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0  
- Warnings: 0  
- Output Filename: C:\Users\HP\Desktop\data srtucture teja\linear search.exe  
- Output Size: 128.638671875 KiB  
- Compilation Time: 0.38s

File View Project Execute Tools Help

(globals)

Debug

data structure sum of fibino series 3.cpp data odd and even 3.cpp location of the element in an element.cpp register

[\*] valid string.cpp [\*] reverse a num in 32 bits.cpp matrix multiplication.cpp rows and columns in an array.cpp

```
1 #include <stdio.h>
2 int binarySearch(int arr[], int size, int target) {
3     int left = 0;
4     int right = size - 1;
5     while (left <= right) {
6         int mid = left + (right - left) / 2;
7         if (arr[mid] == target) {
8             return mid;
9         } else if (arr[mid] < target) {
10            left = mid + 1;
11        } else {
12            right = mid - 1;
13        }
14    }
15    return -1;
16 }
17 int main() {
18     int arr[] = {2, 5, 7, 10, 15, 20, 25, 30, 35};
19     int size = sizeof(arr) / sizeof(arr[0]);
20     int target = 20;
21     int result = binarySearch(arr, size, target);
22     if (result != -1) {
23         printf("Element %d found at index %d.\n", target, result);
24     } else {
25         printf("Element not found in the array.\n");
26     }
27     return 0;
28 }
```

Select C:\Users\HP\Desktop\data srtucture teja\binary search.exe

Element 20 found at index 5.

-----

Process exited after 0.06423 seconds with return value 0

Press any key to continue . . .

Resources Compile Log Debug Find Results Close

Compilation results...

-----

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\Desktop\data srtucture teja\binary search.exe
- Output Size: 128.638671875 KiB
- Compilation Time: 0.41s

sktop\data srtucture teja\linked list.cpp - [Executing] - Dev-C++ 5.11

File View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

globals

Debug

data structure sum of fibino series 3.cpp	data odd and even 3.cpp	location of the element in an element.cpp	registration nuber.cpp	merging.cpp
[*] reverse a num in 32 bits.cpp	matrix multiplication.cpp	rows and columns in an array.cpp	[*] array operations.cpp	[*] linear search

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 struct Node {
4     int data;
5     struct Node* next;
6 };
7 struct Node* createNode(int data) {
8     struct Node* newNode = (struct Node*)malloc(sizeof(struct Node));
9     newNode->data = data;
10    newNode->next = NULL;
11    return newNode;
12 }
13 void insertEnd(struct Node** head, int data) {
14     struct Node* newNode = createNode(data);
15     if (*head == NULL) {
16         *head = newNode;
17     } else {
18         struct Node* temp = *head;
19         while (temp->next != NULL) {
20             temp = temp->next;
21         }
22         temp->next = newNode;
23     }
24 }
25 void printList(struct Node* head) {
26     struct Node* temp = head;
27     while (temp != NULL) {
28         printf("%d ", temp->data);
29         temp = temp->next;
30     }
31     printf("\n");
32 }
```

C:\Users\HP\Desktop\data srtucture teja\linked l... 10 20 30

Process exited after 0.06898 seconds with return value 0

Press any key to continue . . .

Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0  
- Warnings: 0  
- Output Filename: C:\Users\HP\Desktop\data srtucture teja\linked list.exe  
- Output Size: 128.74609375 KiB  
- Compilation Time: 0.41s

C:\Users\HP\Desktop\data srtucture teja\linked list.cpp - [Executing] - Dev-C++ 5.11

Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)  Classes  Debug  data structure sum of fibino series 3.cpp  data odd and even 3.cpp  location of the element in an element.cpp  registration nuber.cpp  merging.cpp  
[\*] reverse a num in 32 bits.cpp  matrix multiplication.cpp  rows and columns in an array.cpp  [\*] array operations.cpp  [\*] linear search.cpp

```
20     temp = temp->next;
21 }
22 temp->next = newNode;
23 }
24 }
25 void printList(struct Node* head) {
26     struct Node* temp = head;
27     while (temp != NULL) {
28         printf("%d ", temp->data);
29         temp = temp->next;
30     }
31     printf("\n");
32 }
33 void freeList(struct Node* head) {
34     struct Node* temp;
35     while (head != NULL) {
36         temp = head;
37         head = head->next;
38         free(temp);
39     }
40 }
41 int main() {
42     struct Node* head = NULL;
43     insertEnd(&head, 10);
44     insertEnd(&head, 20);
45     insertEnd(&head, 30);
46     printList(head);
47     freeList(head);
48     return 0;
49 }
```

C:\Users\HP\Desktop\data srtucture teja\linked l... 10 20 30

Process exited after 0.06898 seconds with return value 0  
Press any key to continue . . .

Compiler Resources Compile Log  Debug Find Results Close

About Compiler... Shorten compiler paths

Compilation results...

```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\Desktop\data srtucture teja\linked list.exe
- Output Size: 128.74609375 KiB
- Compilation Time: 0.41s
```

Debug

data structure sum of fibino series 3.cpp    data odd and even 3.cpp    location of the element in an element.cpp    registration nuber.cpp  
[\*] reverse a num in 32 bits.cpp    matrix multiplication.cpp    rows and columns in an array.cpp    [\*] array operations.cpp    [\*] linear search.cpp

```
1 #include <stdio.h>
2 #define MAX_SIZE 100
3 typedef struct {
4     int arr[MAX_SIZE];
5     int top;
6 } Stack;
7 void initializeStack(Stack *stack) {
8     stack->top = -1;
9 }
10 int isEmpty(Stack *stack) {
11     return stack->top == -1;
12 }
13 int isFull(Stack *stack) {
14     return stack->top == MAX_SIZE - 1;
15 }
16 void push(Stack *stack, int value) {
17     if (isFull(stack)) {
18         printf("Stack Overflow! Cannot push element.\n");
19         return;
20     }
21     stack->top++;
22     stack->arr[stack->top] = value;
23 }
24 int pop(Stack *stack) {
25     if (isEmpty(stack)) {
26         printf("Stack Underflow! Cannot pop element.\n");
27         return -1;
28     }
29     int value = stack->arr[stack->top];
30     stack->top--;
31     return value;
}
```

C:\Users\HP\Desktop\data srtucture teja\stack ...  
Top element: 30  
Popped element: 30  
Popped element: 20  
Popped element: 10  
Is stack empty? Yes  
Process exited after 0.06306 seconds with return value 0  
Press any key to continue . . .

Resources    Compile Log    Debug    Find Results    Close

Compilation results...

```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HP\Desktop\data srtucture teja\stack ds.exe
- Output Size: 129.810546875 KiB
- Compilation Time: 0.44s
```

Col: 2   Sel: 0   Lines: 53   Length: 1250

File Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

data structure sum of fibino series 3.cpp data odd and even 3.cpp location of the element in an element.cpp registration nuber.cpp merging.cpp  
[\*] reverse a num in 32 bits.cpp matrix multiplication.cpp rows and columns in an array.cpp [\*] array operations.cpp [\*] linear search.cpp

```
21     stack->top++;
22     stack->arr[stack->top] = value;
23 }
24 int pop(Stack *stack) {
25     if (isEmpty(stack)) {
26         printf("Stack Underflow! Cannot pop element.\n");
27         return -1;
28     }
29     int value = stack->arr[stack->top];
30     stack->top--;
31     return value;
32 }
33 int peek(Stack *stack) {
34     if (isEmpty(stack)) {
35         printf("Stack is empty! Cannot peek.\n");
36         return -1;
37     }
38     return stack->arr[stack->top];
39 }
40 int main() {
41     Stack stack;
42     initializeStack(&stack);
43     push(&stack, 10);
44     push(&stack, 20);
45     push(&stack, 30);
46     printf("Top element: %d\n", peek(&stack));
47     printf("Popped element: %d\n", pop(&stack));
48     printf("Popped element: %d\n", pop(&stack));
49     printf("Popped element: %d\n", pop(&stack));
50     printf("Is stack empty? %s\n", isEmpty(&stack) ? "Yes" : "No");
51     return 0;
52 }
```

C:\Users\HP\Desktop\data srtucture teja\stack ...

Top element: 30  
Popped element: 30  
Popped element: 20  
Popped element: 10  
Is stack empty? Yes

Process exited after 0.06306 seconds with return value 0  
Press any key to continue . . .

Sources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0  
- Warnings: 0  
- Output Filename: C:\Users\HP\Desktop\data srtucture teja\stack ds.exe  
- Output Size: 129.810546875 KiB  
- Compilation Time: 0.44s

globals) | data structure sum of fibino series 3.cpp | data odd and even 3.cpp | location of the element in an element.cpp | registration nuber.cpp

Debug [\*] reverse a num in 32 bits.cpp | matrix multiplication.cpp | rows and columns in an array.cpp | [\*] array operations.cpp | [\*] linear search.cpp | binary

```
1 #include <stdio.h>
2 #define MAX_SIZE 1
3 int queue[MAX_SIZE];
4 int front = 0;
5 int rear = -1;
6 int size = 0;
7 int isEmpty() {
8     return size == 0;
9 }
10 int isFull() {
11     return size == MAX_SIZE;
12 }
13 void enqueue(int data) {
14     if (!isFull()) {
15         rear = (rear + 1) % MAX_SIZE;
16         queue[rear] = data;
17         size++;
18     } else {
19         printf("Queue is full. Cannot enqueue.\n");
20     }
21 }
22 int dequeue() {
23     if (!isEmpty()) {
24         int data = queue[front];
25         front = (front + 1) % MAX_SIZE;
26         size--;
27         return data;
28     } else {
29         printf("Queue is empty. Cannot dequeue.\n");
30         return -1;
31     }
32 }
33 int main() {
34     enqueue(10);
35     enqueue(20);
36     enqueue(30);
37     printf("Dequeued element: %d\n", dequeue());
38     printf("Dequeued element: %d\n", dequeue());
39
40     return 0;
41 }
42 
```

C:\Users\HP\Desktop\data srtucture teja\q operati... Queue is full. Cannot enqueue.  
Queue is full. Cannot enqueue.  
Dequeued element: 10  
Queue is empty. Cannot dequeue.  
Dequeued element: -1  
-----  
Process exited after 0.06926 seconds with return value 0  
Press any key to continue . . .

compiler Resources Compile Log Debug Find Results  
Col: 20 Sel: 0 Lines: 42 Length: 854 Insert Done parsing in 0.015 seconds  
Type here to search