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main.c

Run

Output

Clear

```
18 }
19 }
20
21 int main() {
22     int rows1, cols1, rows2, cols2;
23
24     printf("Enter the number of rows and columns of matrix1: ");
25     scanf("%d %d", &rows1, &cols1);
26
27     printf("Enter the number of rows and columns of matrix2: ");
28     scanf("%d %d", &rows2, &cols2);
29
30     if (cols1 != rows2) {
31         printf("Matrix multiplication is not possible due to incompatible
          dimensions.\n");
32         return 1;
33     }
34
35     int matrix1[rows1][cols1], matrix2[rows2][cols2],
        resultMatrix[rows1][cols2];
36
37     printf("Enter elements of matrix1:\n");
38     for (int i = 0; i < rows1; i++) {
39         for (int j = 0; j < cols1; j++) {
40             scanf("%d", &matrix1[i][j]);
41         }
42     }
```

```
/tmp/pRkLIMhkr1.o
Enter the number of rows and columns of matrix1:
2 3
Enter the number of rows and columns of matrix2:
3 4 5 6 7
Enter elements of matrix1:
1 2 3 4
Enter elements of matrix2:
1 2 3 4 5 6 7
8 9 0
1 2 3
Resultant matrix after multiplication:
100 98 46 64
36 38 14 20
```

34°C
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main.c

Run

```
1 #include <stdio.h>
2 void matrixMultiplication(int rows1, int cols1, int cols2, int matrix1[][cols1]
  , int matrix2[][cols2], int resultMatrix[][cols2]) {
3     for (int i = 0; i < rows1; i++) {
4         for (int j = 0; j < cols2; j++) {
5             resultMatrix[i][j] = 0;
6             for (int k = 0; k < cols1; k++) {
7                 resultMatrix[i][j] += matrix1[i][k] * matrix2[k][j];
8             }
9         }
10    }
11 }
12 void displayMatrix(int rows, int cols, int matrix[][cols]) {
13     for (int i = 0; i < rows; i++) {
14         for (int j = 0; j < cols; j++) {
15             printf("%d ", matrix[i][j]);
16         }
17         printf("\n");
18     }
19 }
20
21 int main() {
22     int rows1, cols1, rows2, cols2;
23
24     printf("Enter the number of rows and columns of matrix1: ");
25     scanf("%d %d", &rows1, &cols1);
26 }
```

Output

Clear

```
/tmp/pRkLIMhkr1.o
Enter the number of rows and columns of matrix1:
2 3
Enter the number of rows and columns of matrix2:
3 4 5 6 7
Enter elements of matrix1:
1 2 3 4
Enter elements of matrix2:
1 2 3 4 5 6 7
8 9 0
1 2 3
Resultant matrix after multiplication:
100 98 46 64
36 38 14 20
```

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main.c

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1
2 void deleteElement(int arr[], int size, int position) {
3 if (position < 0 || position >= size) {
4 printf("Invalid position. Deletion is not possible.\n");
5 return;
6 }
7 for (int i = position; i < size - 1; i++) {
8 arr[i] = arr[i + 1];
9 }
10
11 printf("Element at position %d (value: %d) deleted successfully.\n",
12 position, arr[size - 1]);
13 }
14 int main() {
15 int arr[] = {1, 2, 3, 4, 5};
16 int size = sizeof(arr) / sizeof(arr[0]);
17
18 int position;
19 printf("Enter the position of the element to delete (0 to %d): ", size - 1
20);
21 scanf("%d", &position);
22 deleteElement(arr, size, position);
23 size--;
24
25 printf("Updated array: ");

Output

Clear

/tmp/wwLAPCxNZ.o
Enter the position of the element to delete (0 to 4): 3
Element at position 3 (value: 5) deleted successfully.
Updated array: 1 2 3 5

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Partly sunny

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```
main.c
1 #include <stdio.h>
2 int findSmallestElement(int arr[], int size) {
3     int smallest = arr[0];
4     for (int i = 1; i < size; i++) {
5         if (arr[i] < smallest) {
6             smallest = arr[i];
7         }
8     }
9     return smallest;
10 }
11
12 int main() {
13     int arr[] = {34, 45, 11, 19, 41};
14     int size = sizeof(arr) / sizeof(arr[0]);
15
16     int smallest = findSmallestElement(arr, size);
17
18     printf("The smallest element in the array is: %d\n", smallest);
19
20     return 0;
21 }
22
```

```
/tmp/wtWLaPCxNZ.o
The smallest element in the array is: 11
```

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main.c Run Output Clear

```
1 #include <stdio.h>
2 int findSum(int arr[], int size) {
3     int sum = 0;
4     for (int i = 0; i < size; i++) {
5         sum += arr[i];
6     }
7     return sum;
8 }
9
10 int main() {
11     int arr[] = {1, 2, 3, 4, 5};
12     int size = sizeof(arr) / sizeof(arr[0]);
13
14     int sum = findSum(arr, size);
15
16     printf("The sum of elements in the array is: %d\n", sum);
17
18     return 0;
19 }
20
```

/tmp/wwLwPLxNZ.o
The sum of elements in the array is: 15

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Array Element Deletion C

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main.c

Run

```
1 #include <stdio.h>
2 void matrixAddition(int rows, int cols, int matrix1[][cols], int matrix2[][cols],
   int resultMatrix[][cols]) {
3     for (int i = 0; i < rows; i++) {
4         for (int j = 0; j < cols; j++) {
5             resultMatrix[i][j] = matrix1[i][j] + matrix2[i][j];
6         }
7     }
8 }
9 void displayMatrix(int rows, int cols, int matrix[][cols]) {
10    for (int i = 0; i < rows; i++) {
11        for (int j = 0; j < cols; j++) {
12            printf("%d ", matrix[i][j]);
13        }
14        printf("\n");
15    }
16 }
17 int main() {
18     int rows, cols;
19
20     printf("Enter the number of rows: ");
21     scanf("%d", &rows);
22
23     printf("Enter the number of columns: ");
24     scanf("%d", &cols);
25
26     int matrix1[rows][cols], matrix2[rows][cols], resultMatrix[rows][cols];
```

Output

Clear

```
/tmp/wwwLaPLxNZ.o
Enter the number of rows: 2
Enter the number of columns: 2
Enter elements of matrix1:
1 2 3 0
Enter elements of matrix2:
0 3 4 1
Resultant matrix after addition:
1 5
7 1
```

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Search

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