#include <stdio.h>

void main()

{

int matrix[3][3];

int i, j;

printf("Enter the elements of the matrix row by row:\n");

// Read the matrix elements from the user

for (i = 0; i < 3; i++) {

for (j = 0; j < 3; j++) {

printf("Enter element at position (%d, %d): ", i + 1, j + 1);

scanf("%d", &matrix[i][j]);

}

}

// Calculate the determinant

int determinant = matrix[0][0] \* (matrix[1][1] \* matrix[2][2] - matrix[2][1] \* matrix[1][2]) -

matrix[0][1] \* (matrix[1][0] \* matrix[2][2] - matrix[2][0] \* matrix[1][2]) +

matrix[0][2] \* (matrix[1][0] \* matrix[2][1] - matrix[2][0] \* matrix[1][1]);

// Print the determinant

printf("Determinant: %d\n", determinant);

}

Output:

Enter the elements of the matrix row by row:

Enter element at position (1, 1): 1

Enter element at position (1, 2): 1

Enter element at position (1, 3): 1

Enter element at position (2, 1): 1

Enter element at position (2, 2): 11

Enter element at position (2, 3): 1

Enter element at position (3, 1): 1

Enter element at position (3, 2): 1

Enter element at position (3, 3):

11

Determinant: 100