C Program to find inversion count of array

#include <stdio.h>

// Function to find Inversion count of the given array

int findInversionCount(int arr[], int n)

{

int inversionCount = 0,i,j;

for (i = 0; i < n - 1; i++)

{

for (j = i + 1; j < n; j++)

if (arr[i] > arr[j])

inversionCount++;

}

return inversionCount;

}

// main function

int main()

{

int n,arr[100],i;

printf("Enter the number of elements in the array\n");

scanf("%d",&n);

printf("Enter the elements in the array\n");

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

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

}

printf("The inversion count of the array is %d", findInversionCount(arr, n));

return 0;

}

**OUTPUT**

