2 June

C program to count the inversion in an array

#include <stdio.h>

int getInvCount(int arr[], int n)

{

int inv\_count = 0;

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

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

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

inv\_count++;

return inv\_count;

}

/\* Driver program to test above functions \*/

int main()

{

int arr[] = { 1, 20, 6, 4, 5 };

int n = sizeof(arr) / sizeof(arr[0]);

printf(" Number of inversions are %d \n", getInvCount(arr, n));

return 0;

}