3.Write a C Program to sort an array of integers in ascending order and display the sorted array and Number of passes performed for sorting.

#include <stdio.h>

#define MAXSIZE 10

void main()

{

int array[MAXSIZE];

int i, j, num, temp,c=0;

printf("Enter the value of num \n");

scanf("%d", &num);

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

for (i = 0; i < num; i++)

{

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

}

for (i = 0; i < num; i++)

{

for (j = 0; j < (num - i - 1); j++)

{

if (array[j] > array[j + 1])

{

temp = array[j];

array[j] = array[j + 1];

array[j + 1] = temp;

c++;

}

}

}

printf("Sorted array is...\n");

for (i = 0; i < num; i++)

{

printf("%d\n", array[i]);

}

printf("Num of iteration %d",c);

}

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