ASCENDING ORDER AND DESCENDING ORDER IN ARRAY

ALGORITHM:

STEP 1: Start the program.

STEP 2: Print array size and using scanf %d and n.

STEP 3: Print elements and using for loop .

STEP 4: if condition using

STEP 5: Print descending and using for loop.

STEP 6: finally return o.

COMMANDS:

for (int i = 0; i < n; i++) \\Loop for ascending ordering

int tmp = a[i]; //Using temporary variable for storing last value

a[i] = a[j]; //replacing value

a[j] = tmp; //storing last value

printf("\n\nDescending : "); //Printing message

for (int i = 0; i < n; i++) //Loop for printing array data after sorting

PROGRAM:

#include <stdio.h>

#include<conio.h>

int main()

{

int a[100],n,i,j;

printf("Array size: ");

scanf("%d",&n);

printf("Elements: ");

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

{

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

}

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

{

for (int j = 0; j < n; j++)

{

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

{

int tmp = a[i];

a[i] = a[j];

a[j] = tmp;

}

}

}

printf("\n\nAscending : ");

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

{

printf(" %d ", a[i]);

}

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

{

for (int j = 0; j < n; j++)

{

if (a[j] < a[i])

{

int tmp = a[i];

a[i] = a[j];

a[j] = tmp;

}

}

}

printf("\n\nDescending : ");

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

{

printf(" %d ", a[i]);

}

return 0;

getch();

}

OUTPUT:

Array size: 5

Elements: 23 45 76 89 45

Ascending : 23 45 45 76 89

Descending : 89 76 45 45 23