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C program to sort elements of array in ascending order

```
#include <stdio.h>
#define MAX_SIZE 100 // Maximum array size

int main()
{
	int arr[MAX_SIZE];
	int size;
	int i, j, temp;

	/* Input size of array */
	printf("Enter size of array: ");
	scanf("%d", &size);
	/* Input elements in array */
	printf("Enter elements in array: ");
	for (i = 0; i < size; i++)
	{
	scanf("%d", &arr[i]);
	}
	for (i = 0; i < size; i++)
	{
	/*
	* Place currently selected element array[i]
	* to its correct place.
	*/
	for (j = i + 1; j < size; j++)
	{
	/*
	* Swap if currently selected array element
	* is not at its correct position.
	*/
	if (arr[i] > arr[j])
	{
	temp = arr[i];
	arr[i] = arr[j];
	arr[j] = temp;
	}
	}
	}
	printf("\nElements of array in ascending order: ");
	for (i = 0; i < size; i++)
	{
	printf("%d\t", arr[i]);
	}
	return 0;
```

```
}
```

OUTPUT

```
Enter size of array:
6
Enter elements in array: 5
6
4
7
8
9
Elements of array in ascending order:
4    5    6    7    8    9
```

C Program to read marks of C-Programming of n students and print out the least 5 of them

```
#include <stdio.h>

struct student
{
	int roll_no, marks;
	char name[25];
} stud[100], t;

void main()
{
	int i, j, n;
	printf("Enter the no of students\n");
	scanf("%d", &n);
	printf("enter student info as roll_no , name , marks\n");
	for (i = 0; i < n; i++)
	{
	scanf("%d %s %d", &stud[i].roll_no, stud[i].name, &stud[i].marks);
	}

	for (i = 0; i <= n; i++)
	{
	for (j = 0; j <= n - 1; j++)
	{
	if (stud[j].marks <= stud[j - 1].marks)
	{
	t = stud[j];
	stud[j] = stud[j - 1];
	stud[j - 1] = t;
	}
	}
	}
	printf("\nStudent info in terms of marks from highest to lowest\n");
	printf("\nROLL_NO\t\t\tNAME\t\t\tMARKS\n");
	printf("-------------------------------------------------------------------------------\n");
	for (i = 0; i < 5; i++)
	{
	printf("%d\t\t\t%s\t\t\t%d\n", stud[i].roll_no, stud[i].name, stud[i].marks);
	}
}
```

OUTPUT

```
Enter the no of students
5
Enter student info as roll_no , marks
1
Kaushal
100
2
John
90
3
Jimmy
80
4
Joseph
70
5
Jessica
60
6
Matt
50

Student info in terms of marks from highest to lowest


ROLL_NO    NAME          MARKS
-------------------------------------------------------
6                Matt              50
5                Jessica           60
4                Joseph            70
3                Jimmy             80
2                John              90
```

C Program to Print the Number of Odd & Even Numbers in an Array

```
#include <stdio.h>
#include <stdlib.h>
int main()
{
int oddSum=0,evenSum=0;
int i,size;
printf("Enter the size of the array: ");
scanf("%d",&size);
int arr[size];
printf("Enter the Array elements: ");
for(i=0; i<size; i++){
scanf("%d",&arr[i]);
}
for(i=0; i<size; i++){
if(arr[i]%2==0){
evenSum=evenSum+arr[i];
}
else{
oddSum=oddSum+arr[i];
}
}
printf("The sum of odd numbers are: %d",oddSum);
printf("\nThe sum of even numbers are: %d",evenSum);
getch();
return 0;
}
```

OUTPUT

```
Enter the size of the array: 6
Enter the Array elements: 13
24
35
46
57
68
The sum of odd numbers are: 105
The sum of even numbers are: 138
```

Count occurrence of positive, negative and zero in C

```
#include <stdio.h>

int main()
{
	int Size, i, a[10];
	int Positive_Count = 0, Negative_Count = 0, Zero_Count = 0;

	printf("\n Please Enter the Size of an Array :  ");
	scanf("%d", &Size);

	printf("\nPlease Enter the Array Elements\n");
	for (i = 0; i < Size; i++)
	{
	scanf("%d", &a[i]);
	}

	for (i = 0; i < Size; i++)
	{
	if (a[i] > 0)
	{
	Positive_Count++;
	}
	else if (a[i] < 0)
	{
	Negative_Count++;
	}

	else
	{
	Zero_Count++;
	}
	}

	printf("\n Total Number of Positive Numbers in this Array = %d ", Positive_Count);
	printf("\n Total Number of Negative Numbers in this Array = %d ", Negative_Count);
	printf("\n Total Number of Zero Numbers in this Array = %d \n", Zero_Count);
	return 0;
}
```

OUTPUT

```
Please Enter the Size of an Array :  5

Please Enter the Array Elements
1
-2
3
0
-4

 Total Number of Positive Numbers in this Array = 2
 Total Number of Negative Numbers in this Array = 2
 Total Number of Zero Numbers in this Array = 1
```