

**/\*C Program to implement Bubble sort**

**Input : 1. Size of the Array**

**2. Array elements**

**Output : Sorted Array elements in ascending order**

**\*/**

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int array[100], n, i, d, position, swap;
```

```
    printf(" Enter the size of the array\n");
```

```
    scanf("%d", &n);
```

```
    printf("\n Enter %d integers\n", n);
```

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

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

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

```
    {
```

```
        position = i;
```

```
        for ( d = i + 1 ; d < n ; d++ )
```

```
        {
```

```
            if ( array[position] > array[d] )
```

```
                position = d;
```

```
        }
```

```
        if ( position != i )
```

```
        {
```

```
        swap = array[i];
        array[i] = array[position];
        array[position] = swap;
    }
}

printf("\n Sorted list in ascending order:\n");

for ( i = 0 ; i < n ; i++ )
    printf(" %3d", array[i]);
    printf("\n\n");
return 0;
}
```



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**Sample Input and Output:**

```
Enter the size of the array
5

Enter 5 integers
12 5 10 99 24

Sorted list in ascending order:
5 10 12 24 99

Press any key to continue..._
```



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