

# C Language – Sorting, Word Count

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```
#include <stdio.h>
#include <stdlib.h>
/* count alphabets in a string */

main()
{
    char str1[20] = "First string\0";
    char str2[20] = "Second string\0";

    char *strpointer ;
    int count = 0;

    strpointer = str2 ;

    while( *strpointer != '\0' )
    {   if( isalpha(*strpointer) )
        count++;
        strpointer++ ;
    }

    printf("%d" , count);

    system("PAUSE");
}
```

## Count Alphabets in a string

```
#include <stdio.h>
#include <stdlib.h>
/* count words in a string */
main()
{
    char str1[20] = "this First string\0";
    char str2[40] = "This is a sample string\0";

    char *strpointer ;
    int count = 0;

    strpointer = str2 ;

    while( *strpointer != '\0' )
    {   if( isspace(*strpointer) )
        {   count++;
            while( isspace(*strpointer) )
            {   strpointer++;

                if ( *strpointer == '\0' )
                    break ;
            }

        }
        strpointer++;
    }
    count++;

    printf("%d" , count);

    system("PAUSE");
}
```

# Count words in a string

```
#include <stdio.h>
#include <stdlib.h>
/* count words in a string */

main()
{
    int numbers[10] = { 23,54,30,20,50,100,30,4,6,1 };
    int i, j;
    int temp = 0;

    for( i=0; i <= 10 ; i++)
    {
        for ( j = i; j <= 10; j++)
        {
            if ( numbers[i] < numbers[j] )
            {
                temp = numbers[i] ;
                numbers[i] = numbers[j] ;
                numbers[j] = temp;
            }
        }
    }
    for( i=0; i <= 10 ; i++)
        printf("%d \n", numbers[i] );

    system("PAUSE");
}
```

# Sort Numbers

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
/* Sort strings */

main()
{
    char names[5][20] = { "Test6", "Test9", "Test3", "Test8", "Test1" };
    char tempname[20] = "test array" ;

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

    for( i=0; i <= 4 ; i++)
    {
        for ( j = i; j <= 4; j++)
        {
            if ( strcmp( names[i], names[j] ) > 0)
            {
                strcpy(tempname, names[i] );
                //printf("i = %d j = %d \n" , i, j) ;
                //printf("%s", names[i] );
                //printf("%s", names[j]);

                strcpy(names[i], names[j]);
                strcpy(names[j], tempname );
                //printf("%s", names[i] );

            }
        }
    }
    for( i=0; i <= 4 ; i++)
        printf("%s \n", names[i] );

    system("PAUSE");
}
```

# Sort Strings

# Assignment



1. Declare an array of 10 integers, find max and min values and print
2. Declare a string of 30 chars, change the first letter of every word to uppercase, print the modified string