8 String Function

"Everyone who searches will find."

In C, we have important string functions: strlen( ), strcpy( ), strcat( ) & strcmp( ). If you know the efficient coding of these functions, it will certainly help you to improve your programming skills. All these functions are coded with WAR coding style.

8.1 strlen( )

```
int strlen( char *s )
{
        char *ptr = s;
        while( *ptr++ )
                ;
        return( ptr-s );
}
```

8.2 strcpy( )

```
char *strcpy( char *s, char *t )
{
        char *ptr=s;
        while( *s++ = *t++ )
                ;
        return( ptr );
}
```

8.3 strcat( )

```
char *strcat( char *s, char *t )
{
        char *ptr=s;
        while( *s++ )
                ;
        while( *s++ = *t++ )
                ;
        return( ptr );
}
```

8.4 strcmp( )

```
int strcmp( char *s, char *t )
{
         int n;
         while ((n = *s - *t++) == 0 && *s++)
                ;
         return( n );
}
```