Implement a set of functions to mirror some of the c++cstring functions:

StrLen( char S1[] );

Returns an integer equal to the length of S1. (The null character, ‘\0’, is not counted in the length.)

StrCpy( char S1[], char S2[]);

Copies the S2 into the C-sting variable S1.

StrCat( char S1[], char S2[]);

Concatenates the C string value of S2 onto the end of the C string in the C-string variable S1.

StrCmp(char S1[], char S2[]);

Returns 0 if S1 and S2 are the same. Returns a value<0, if S1 is less than S2. Return s a value>0 if S1 is greater than S2( that is , returns a nonzero value if S1 and S2 are different.)

StrChr( char S, int character);

Returns a pointer to the **first** occurrence of character in the C string S.

If the character is not found, the function returns a null pointer.

StrRChr( char S, int character);

Returns a pointer to the **last** occurrence of character in the C sting S.

If the character is not found, the function returns a null pointer.

The terminating null-character is considered part of the C string. Therefore, it can also be located to retrieve a pointer to the end of a string.

StrNCpy( char S1, char S2, Limit);

The same as the two-argument strcpy except that at most Limit characters are copied.

StrNCat( char S1, char S2, Limit);

The same as the two-argument strcat except that at most Limit characters are appended.

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FindAny(char S[ ], char charset[ ], intpos);

Find the first occurrence of any of the characters in the charSet array in the source array. Return its positon.

FindNotAny(char S[ ], char charset[ ], intpos);

Find the first occurrence of a character NOT in the characters of the charSet, in the source array. Return its position.

ToUpper(char S1[ ], char S2[ ]);

Convert the C string to upper case.

ToLower(char S1[ ], char S2[ ]);

Convert the C string to lower case.

GT, LT, EQ(char S1[ ], char S2[ ]);

boolean functions to compare two C strings.