

Assignment 8

Q1. Define your own iterative functions for
(using array notation as well as exclusively using pointers)

- a) finding length
- b) copying
- c) concatenation
- d) comparison
- e) reversing in memory
- f) finding first occurrence of given character
- g) finding last occurrence of given character
- h) counting no. of occurrences of a given character
- i) finding a substring in a main string
- j) Whether a string starts or ends with a particular sub string

Q2. perform the following operations using sprintf

- a) concatenation of two strings
- b) copying one string to other
- c) length of a string

Q3. Study the following functions

strncpy, strncat, strncmp, strcasecmp, strncasecmp, strchr, strrchr, strstr, strtok, sprintf, snprintf, sscanf

Q4. Study about various functions which can convert from string to different types

atoi, atol, atoll, atof
strtoul, strtol, strtoul, strtod, strtod etc
man -k strtou - for more listing

Q5. Implement your own function to convert a string having only digits into an integer and vice versa

Q6. Explore the following functions used for raw memory operations.
memcpy, memcmp, memset, bzero

Q7. Implement generic swap function (which swap variables of any type, Hint: -memcpy)

Q8. Write a program to copy one array from other using memcpy

Q9. Write a c program to find sum & avg of command line arguments

Q10. Convert the string in a.b.c.d format into 32 bit unsigned integer
(use pointer operations for packing purpose)