1.

#include <stdio.h>

int strlen(char\* s) {

int len = 0;

while (s[len] != 0) len++;

return len;

}

int strcmp(char\* s1, char\* s2) {

int count1 = 0;

int count2 = 0;

for (int i = 0; i < strlen(s1); i++) {

if (s1[i] < s2[i]) break;

count1 += (int)s1[i];

}

for (int i = 0; i < strlen(s2); i++) {

if (s1[i] > s2[i]) break;

count2 += (int)s2[i];

}

if (count1 == count2) return 0;

else if (count1 > count2) return 1;

else return -1;

}

main() {

char\* s1 = "ad",\* s2 = "abc";

printf("%d\n", strcmp(s1, s2));

return 0;

}

2.

#include <stdio.h>

int strlen(char\* s) {

int len = 0;

while (s[len] != 0) len++;

return len;

}

palindrom(char\* p) {

int flag = 0;

if (strlen(p) == 2) {

for (int i = 0; i < 3; i++) {

if (p[i] < 70) {

if (p[i] != p[strlen(p) - 1 - i] && p[i] + 32 != p[strlen(p) - 1 - i] && p[i] != p[strlen(p) - 1 - i] + 32) {

flag = 1;

break;

}

}

if (p[i] > 70) {

if (p[i] != p[strlen(p) - 1 - i] && p[i] + 32 != p[strlen(p) - 1 - i] && p[i] != p[strlen(p) - 1 - i] + 32) {

flag = 1;

break;

}

}

}

}

for (int i = 0; i < (strlen(p) / 2); i++) {

if (p[i] < 70) {

if (p[i] != p[strlen(p) - 1 - i] && p[i] + 32 != p[strlen(p) - 1 - i] && p[i] != p[strlen(p) - 1 - i] + 32) {

flag = 1;

break;

}

}

else if (p[i] > 70) {

if (p[i] != p[strlen(p) - 1 - i] && p[i] + 32 != p[strlen(p) - 1 - i] && p[i] != p[strlen(p) - 1 - i] + 32) {

flag = 1;

break;

}

}

}

if (flag == 0) return 1;

else return 0;

}

main() {

char\* p1 = "AbDBa";

if (palindrom(p1) == 0) printf("NOT palindrom");

if (palindrom(p1) == 1) printf("Palindrom");

return 0;

}

3.

#include <stdio.h>

int strlen(char\* s) {

int len = 0;

while (s[len] != 0) len++;

return len;

}

char\* strstr(char\* s1, char\* s2) {

int first = 1;

int count = 0;

int value = 0;

for (int i = 0; i < strlen(s1); i++) {

if (strlen(s2) > strlen(s1)) return NULL;

else if (s1[i] == s2[count]) {

if (first == 1) value = i;

count++;

first = 0;

}

else {

if ((count == strlen(s2)) && (first == 0)) break;

else {

count = 0;

first = 1;

value = NULL;

}

}

}

if (((first == 0) && (count != strlen(s2))) || (first == 1)) return NULL;

else return (&(s1[value]));

}

main() {

char\* s1 = "ababc";

char\* s2 = "ba";

char\* endstr = strstr(s1, s2);

return 0;

}