**NAIVE ALGORITHM**

#include <stdio.h>

#include <string.h>

int match(char [], char []);

int main() {

char a[100], b[100];

int position;

printf("Enter some text\n");

gets(a);

printf("Enter a string to find\n");

gets(b);

position = match(a, b);

if (position != -1) {

printf("Found at location: %d\n", position + 1);

}

else {

printf("Not found.\n");

}

return 0;

}

int match(char text[], char pattern[]) {

int c, d, e, text\_length, pattern\_length, position = -1;

text\_length = strlen(text);

pattern\_length = strlen(pattern);

if (pattern\_length > text\_length) {

return -1;

}

for (c = 0; c <= text\_length - pattern\_length; c++) {

position = e = c;

for (d = 0; d < pattern\_length; d++) {

if (pattern[d] == text[e]) {

e++;

}

else {

break;

}

}

if (d == pattern\_length) {

return position;

}

}

return -1;

}