Program polyalphabetic in c

#include <stdio.h>

#include <string.h>

#include <ctype.h>

void encryptPolyalphabetic(const char \*plaintext, const char \*key) {

int keyLength = strlen(key);

for (int i = 0, j = 0; plaintext[i] != '\0'; i++) {

char currentChar = plaintext[i];

if (isalpha(currentChar)) {

char base = isupper(currentChar) ? 'A' : 'a';

int shift = tolower(key[j % keyLength]) - 'a';

char encryptedChar = (currentChar - base + shift) % 26 + base;

printf("%c", encryptedChar);

j++;

} else {

printf("%c", currentChar);

}

}

printf("\n");

}

int main() {

char plaintext[100], key[100];

printf("Enter the key: ");

fgets(key, sizeof(key), stdin);

key[strcspn(key, "\n")] = '\0';

printf("Enter the plaintext: ");

fgets(plaintext, sizeof(plaintext), stdin);

plaintext[strcspn(plaintext, "\n")] = '\0';

encryptPolyalphabetic(plaintext, key);

return 0;

}

Output:

