Program-14 vigenere cipher in c

#include <stdio.h>

#include <string.h>

void encrypt(const char \*plaintext, const

int \*key, char \*ciphertext) {

int plaintextLen = strlen(plaintext);

int i;

for (i = 0; i < plaintextLen; i++) {

ciphertext[i] = (plaintext[i] - 'A' +

key[i]) % 26 + 'A';

}

ciphertext[plaintextLen] = '\0';

}

void decrypt(const char \*ciphertext, const

int \*key, char \*plaintext) {

int ciphertextLen = strlen(ciphertext),i;

for (i = 0; i < ciphertextLen; i++) {

plaintext[i] = (ciphertext[i] - 'A' - key[i]

+ 26) % 26 + 'A';

}

plaintext[ciphertextLen] = '\0';

}

int main() {

const char \*plaintext = "SENDMOREMONEY";

int key[] = {9, 0, 1, 7, 23, 15, 21, 14, 11,

11, 2, 8, 9};

char ciphertext[strlen(plaintext) + 1];

encrypt(plaintext, key, ciphertext);

printf("Ciphertext: %s\n", ciphertext);

char decryptedText[strlen(plaintext) + 1];

decrypt(ciphertext, key, decryptedText);

printf("Decrypted Text: %s\n",

decryptedText);

return 0;

}

