CODIGO ENCRIPTACION

#include <iostream>

using namespace std;

string mensaje;

string A;

void mensajeyclave(){

string msg;

cout << "INGRESE MENSAJE : ";

getline(cin, msg);

for(int i = 0; i < msg.length(); i++){

msg[i] = toupper(msg[i]);

}

string key;

cout << "INGRESE CLAVE : ";

getline(cin, key);

for(int i = 0; i < key.length(); i++){

key[i] = toupper(key[i]);

}

string L = "";

for (int i = 0,j = 0; i <msg.length();i++){

if(msg[i] ==32){

L += 32;

} else {

if(j<key.length()){

L += key[j];

j++;

} else {

j = 0;

L += key[j];

j++;

}

}

}

//cout << msg << "\n" << L<<endl;

mensaje = msg;

A = L;

}

int tableArr[26][26];

void creandotablavigenere(){

for (int i = 0; i < 26; i++){

for (int j = 0; j < 26; j++){

int temp;

if((i+65)+j > 90){

temp = ((i+65)+j) - 26;

tableArr[i][j] = temp;

} else {

temp = (i+65)+j;

tableArr[i][j] = temp;

}

}

}

for(int i = 0; i <26; i++){

for(int j = 0; j < 26; j++){

cout << (char)tableArr[i][j] << " ";

}

cout << endl;

}

}

void Encriptacion(string mensaje, string A){

creandotablavigenere();

string encryptedText = "";

for(int i = 0; i < mensaje.length(); i++){

if(mensaje[i] == 32 && A[i] == 32){

encryptedText += " ";

} else {

int x = (int)mensaje[i]-65;

int y = (int)A[i]-65;

encryptedText += (char)tableArr[x][y];

}

}

cout<<" "<<endl;

cout << "EL TEXTO ENCRIPTADO ES: " << encryptedText<<endl;

cout<<" "<<endl;

}

int itrCount(int key, int msg){

int counter = 0;

string result = "";

for(int i = 0; i < 26; i++){

if(key+i > 90){

result += (char)(key+(i-26));

} else {

result += (char)(key+i);

}

}

for(int i = 0; i < result.length(); i++){

if(result[i] == msg){

break;

} else {

counter++;

}

}

return counter;

}

int main(){

int x;

cout << "\tENCRIPTAR "<<endl;

mensajeyclave();

Encriptacion(mensaje, A);

return 0;

}