

```
1 #include <iostream>
2 #include <string>
3 #include <map>
4
5 using namespace std;
6
7 typedef map<char, char> encrypted;
8
9 const int Tam_ABC = 26;
10
11 void Swap(encrypted & encr)
12 {
13     encrypted aux;
14     encrypted::iterator it;
15     for(it=encr.begin(); it!=encr.end(); it++)
16     {
17         aux.insert(encrypted::value_type(it->second, it->first));
18     }
19     encr=aux;
20 }
21
22 string Desencripta(const string base, encrypted encr)
23 {
24     encrypted::iterator it;
25     string ret;
26     Swap(encr);
27
28     for(int i=0; i<base.size(); i++)
29     {
30         it=encr.find(base[i]);
31         ret += it->second;
32     }
33
34     return ret;
35 }
36
37 void construirEnc(encrypted & encr)
38 {
39     for(int i=0; i<Tam_ABC; i++)
40     {
41         encr.insert(encrypted::value_type('A'+i, 'z'-i));
42         encr.insert(encrypted::value_type('a'+i, 'Z'-i));
43     }
44 }
45
46 int main()
47 {
48     encrypted encr;
49
50     construirEnc(encr);
51     encrypted::iterator it;
52
53     string pass="iZGROOZwRUFHRMT";
54
55     string pass_enc=Desencripta(pass, encr);
56
57     cout << pass_enc << endl;
58
59 }
```