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#include<iostream>
#include<string>

using namespace std;

string plain;
string deplain;
string alfabe = "abcdefghijklmnopqrstuvwyz";

void main()
{
    string chipper;
    cout << "plain text :";
    cin >> plain;
    int ind, key;
    cout << "anahtar degeri : ";
    cin >> key;

    // chesar chipper

    for (int i = 0; i < plain.size(); i++)
    {
        for (int j = 0; j < alfabe.size(); j++)
        {
            if (plain[i] == alfabe[j])
            {
                chipper = chipper + alfabe[(j + key) % alfabe.size()];
            }
        }
    }

    cout <<"chipper text :"<< chipper<<endl;

    for (int i = 0; i < chipper.size(); i++)
    {
        for (int j = 0; j < alfabe.size(); j++)
        {
            if (chipper[i] == alfabe[j])
            {
                if (j - key < 0)
                {
                    ind = -key + alfabe.size();
                    deplain = deplain + alfabe[ind % alfabe.size()];
                }
                else
                {
                    deplain = deplain + alfabe[(j - key) % alfabe.size()];
                }
            }
        }
    }

    cout << "deplain text : " << deplain <<endl;
    system("pause");
}

```

```

char alf[5][6];
int cnt = 0;
string polychipper;
string depolychipper;

for (int i = 0; i < 5; i++)
    for (int j = 0; j < 6; j++)
    {
        alf[i][j] = alfabe[cnt];
        cnt++;
        if (cnt == alfabe.size())
            break;
    }

for (int k = 0; k < plain.size(); k++)
{
    for (int i = 0; i < 5; i++)
        for (int j = 0; j < 6; j++)
        {
            if (plain[k] == alf[i][j])
                polychipper = polychipper + to_string(i) + to_string(j);
        }
}

cout << "polychipper:" << polychipper << endl;

system("pause");

int *pol = new int[polychipper.size()];

for (int i = 0; i < polychipper.size(); i = i+2)
{
    pol[i] = polychipper[i] - '0';
    pol[i+1] = polychipper[i+1] - '0';

    depolychipper = depolychipper + alf[(pol[i])][(pol[i + 1])];
}

cout << "depolychipper :" << depolychipper << endl;

system("pause");

```

```

string affchipper;
string deaffchipper;

int a;
int b;
int *y = new int [plain.size()];
int n = 0; //a nın tersi (adım sayısı)
int x;

cout << "a anahtarını girin:"; cin >> a;
cout << "b anahtarını girin:"; cin >> b;

for(int i = 0; i < plain.size(); i++)
{
    for (int j = 0; j < alfabe.size(); j++)
    {
        if (plain[i] == alfabe[j])
        {
            y[i] = (a * j + b) % alfabe.size();
            affchipper = affchipper + alfabe[y[i]];
        }
    }
}

cout << "\naffinechipper :" << affchipper << endl;
system("pause");

//x = yb - a; // a üzeri-1

while ((a * n - 1) % alfabe.size() != 0)
    n++;

cout << "a nın tersi:" << n << endl;

for (int i = 0; i < affchipper.size(); i++)
{
    deaffchipper = deaffchipper + alfabe[(n * (y[i] - b)) %
alfabe.size()];
}

cout << "\ndeaffinechipper :" << deaffchipper << endl;
system("pause");
}

```