#include<iostream>

using namespace std;

string M = "abcdefghijklmnopqrstuvwxyz";

int KiTu\_So(char c)

{

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

if(c == M[i])

return i;

}

char So\_KiTu(int i)

{

return M[i];

}

void tich(int k[3][3],int p[3][4],int c[3][4])

{

int i,j,t;

for(i=0;i<3;i++)

{

for(j=0;j<4;j++)

{

c[i][j]=0;

for(t=0;t<3;t++)

{

c[i][j] += k[i][t] \* p[t][j];

c[i][j] = c[i][j] % 26;

}

}

}

for(int i = 0; i < 3; i++)

{

for(int j = 0; j < 4; j++)

{

cout << c[i][j] << " ";

}

cout << endl;

}

}

int main ()

{

string P = "paymoremoney";

int s[P.size()];

for(int i = 0; i < P.size(); i++)

{

s[i] = KiTu\_So(P[i]);

}

int a[3][4];

int b[3][4];

string c[3][4];

for(int i = 0; i < 3; i++)

{

for(int j = 0; j < 4; j++)

{

a[i][j] = s[i\*4 + j];

cout << a[i][j] << " ";

}

cout << endl;

}

cout<<endl;

int k[3][3] =

{

{17, 17, 5},

{21, 18, 21},

{2, 2, 19}

};

tich(k, a, b);

cout<<endl;

for(int i = 0;i<3;i++)

{

for(int j=0;j<4;j++)

{

c[i][j] = So\_KiTu(b[i][j]);

cout << c[i][j];

}

}

return 0;

}