BAO MAT

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| /////////////////////////Caser==================================================  #include<bits/stdc++.h>  using namespace std;  int KT\_S(char c){  return c- 'A';  }  char S\_KT(int x){  return x+'A';  }  int main(){  string P,C;int K;  cout<<"Nhap chuoi plaintext: ";getline(cin,P);  cout<<"Nhap khoa K = ";cin>>K;  for(int i=0;i<P.size();i++){  int p=KT\_S(P[i]);//ki tu chuyen thanh so  int c=(p+K)%26;//chi vao nhung so tu 0->25  C=C+S\_KT(c);  }  cout<<"Chuoi ma hoa: "<<C;  //Giai ma  P="";  for(int i=0;i<C.size();i++){  int c=KT\_S(C[i]);  int p=(c-K+26)%26;  P=P+S\_KT(p);  }  cout<<endl<<"CHuoi gia ma: "<<P;  }  int main(){//GIAI MA =cach thu ALL TH//LZSFYFSQEMSFZAWMIMS  string P,C;//int K;  cout<<"Nhap chuoi ciphertext: ";getline(cin,C);  for(int K=0;K<=25;K++){  P="";  for(int i=0;i<C.size();i++){  int c=KT\_S(C[i]);  int p=(c-K+26)%26;  P=P+S\_KT(p);  }  cout<<K<<" : "<<P<<endl;  }  } | Affine====================================(hung)  #include <iostream>  #include <string>  using namespace std;  int KTS ( char c){  return ( c- 'A');      }  char SKT ( int x){  return x + 'A';  }  bool key(int a){  for ( int i = 1 ; i < 26 ; i+=2){  if ( a !=i && a == 13){  return false;  }  }  return true;  }  int keyD(int a){  int b;  for ( int i = 1; i < 26; i+=2){  if ( (a \* i) %26 == 1){  b = i;  }  }  return b;  }  int main(){  string P, C;  cout<<"Nhap P : "; getline(cin, P);  int a, b;  cout<<"Nhap key: "; cin>>a>>b;  cout<<keyD(a)<<endl;  while(!key(a)){  cout<<"Khoa a khong thoa man!"<<endl;  cout<<"Nhap lai key a: "; cin>>a;    }  for ( int i =0; i< P.size(); i++){  P[i] = toupper(P[i]);  }    for ( int i = 0; i < P.size(); i++){    int p =KTS(P[i]);  int c = (a \*p + b)%26;  C += SKT(c);    }    cout<<"Chuoi ma hoa: "<<C;  string PP;  int c = 23 \* ( 3 - 5) %26;  cout<<"t = "<<c<<endl;  int d = keyD(a);  for ( int i = 0; i< C.size(); i++ ){  int cc =KTS(C[i]);  int pp = (keyD(a)\* (cc - b + 26)) %26;  PP += SKT(pp);  }  cout<<"\nChuoi giai ma: "<<PP<<endl;  }  int main(){  string C,P;  cout<<"Nhap C: "; getline(cin,C);  for ( int a = 1; a < 26; a+=2){  if ( a == 13) continue;  for ( int b = 1 ; b< 26; b++){  P ="";  for ( int z = 0; z< C.size(); z++ ){  int cc =KTS(C[z]);  int pp = (keyD(a)\* (cc - b + 26)) %26;  P += SKT(pp);  }    cout<<a<<","<<b<<": "<<P<<endl;  }  }  } |  |  |

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| Fair play(playfair)=======================================  #include <iostream>  #include <string>  #include <cstring>  #include <cctype>  using namespace std;  string xoaCach(string plainText){  string c ="";  for( int i = 0 ; i < plainText.length(); i++){  if ( isalpha(plainText[i])){  c+= plainText[i];  }  }  return c;  }  // Ham tao matran: 5x5;  void cons\_Matrix(string keyWord, char maTran[][5]){  bool kt[26] = {false};  int k = 0;  //them keyword vao matran:  for ( int i = 0; i < keyWord.length(); i++){  if (!kt[keyWord[i] - 'A']){  maTran[k/5][k%5] = keyWord[i];  kt[keyWord[i] - 'A'] = true;  k++;  }  }    // them cac tu con lai vao matran:    for ( int i = 0; i < 26; i++){  if( !kt[i] && i!= 9){  maTran[k/5][k%5] = i+ 'A';  kt[i] = true;  k++;  }  }  }  // Ham cipher playfair:  string cy\_Playfair(string plainText, char maTran[][5]){  string cypherText = "";  //chia plainText thanh tung cap chu cai:  for ( int i = 0; i < plainText.length(); i+=2){  char let1 = plainText[i];  char let2 = plainText[i+1];  if ( let1 == let2){  let2 = 'X';  i--;  }    int row1, row2, col1, col2;  //Tim vi tri hang cot cua tu dau tien:  for ( int i = 0; i < 5; i++){  for (int j = 0; j< 5; j++){  if (maTran[i][j] == let1){  row1 = i;  col1 = j;  }  }  }  //vi tri hang cot cua tu thu 2:  for ( int i = 0; i < 5; i++){  for (int j = 0; j< 5; j++){  if (maTran[i][j] == let2){  row2 = i;  col2 = j;  }  }  }      //Cap tu tren cung mot hang;    if ( row1 == row2){  cypherText += maTran[row1][(col1 +1)%5];  cypherText += maTran[row2][(col2 +1) %5];  }  else if(col1 == col2){  cypherText += maTran[(row1 +1)%5][col1];  cypherText += maTran[(row2 +1)%5][col2];  }  else{  cypherText += maTran[row1][col2];  cypherText += maTran[row2][col1];  }  }  return cypherText;        }    string Giai\_playfair(string cypherText, char maTran[][5]){  string PP= "";  //chia plainText thanh tung cap chu cai:  for ( int i = 0; i < cypherText.length(); i+=2){  char let1 = cypherText[i];  char let2 = cypherText[i+1];  if ( let1 == let2){  let2 = 'X';  i--;  }    int row1, row2, col1, col2;  //Tim vi tri hang cot cua tu dau tien:  for ( int i = 0; i < 5; i++){  for (int j = 0; j< 5; j++){  if (maTran[i][j] == let1){  row1 = i;  col1 = j;  }  }  }  //vi tri hang cot cua tu thu 2:  for ( int i = 0; i < 5; i++){  for (int j = 0; j< 5; j++){  if (maTran[i][j] == let2){  row2 = i;  col2 = j;  }  }  }      //Cap tu tren cung mot hang;    if ( row1 == row2){  PP += maTran[row1][(col1 -1 +5)%5];  PP += maTran[row2][(col2 -1+5) %5];  // if ( col1 == 0){  // PP += maTran[row1][(col1 +4)%5];  // PP += maTran[row2][(col2 -1) %5];  // }else{  // PP += maTran[row1][(col1 -1)%5];  // PP += maTran[row2][(col2 -1) %5];  // }    }  else if(col1 == col2){  PP += maTran[(row1 -1+5)%5][col1];  PP += maTran[(row2 -1+5)%5][col2];  }  else{  PP += maTran[row1][col2];  PP += maTran[row2][col1];  }  }  return PP;        }  int main(){  string plainText, keyWord;  char maTran[5][5];  cout<<"Nhap plainText: "; getline(cin, plainText);  cout<<"Nhap keyWord: "; getline(cin, keyWord);  plainText = xoaCach(plainText);  cons\_Matrix(keyWord, maTran);  string C = cy\_Playfair(plainText, maTran);  string pp = Giai\_playfair(C,maTran);  cout<<"Plaintext: "<<plainText<<endl;  cout<<"Cyphertext: "<<C<<endl;  cout<<"Chuoi giai ma: "<<pp<<endl;      for ( int i = 0; i < 5; i++){  for ( int j =0; j< 5; j++){  cout<<maTran[i][j]<<" ";  }  }  return 0;    } | /////////////////////////////////////////////////////Fair play(playfair)=======================================  int main(){  string K; char A[5][5];  string B="ABCDEFGHIJKLMNOPQRSTUVWXYZ";  cout<<"Nhap chuoi khoa K: "; getline(cin,K);  K=K+B;  //xoa ki tu  for(int i=0;i<K.size();i++)  for(int j=i+1;j<K.size();j++)  if(K[j]==K[i]){  K.erase(j,1);  j--;  }  cout<<"Chuoi moi : "<<K<<endl;  //Dat vao ma tran  int d=0;  for(int i=0;i<5;i++){  for(int j=0;j<5;j++){  A[i][j]=K[d];  d++;  }  }  for(int i=0;i<5;i++){  for(int j=0;j<5;j++){  cout<<A[i][j]<<" ";  }  cout<<endl;  }  }  //////////////////////////////////AFFINE(thay)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\  #include<bits/stdc++.h>  #include<string>  using namespace std;  int KT\_S(char c){  return c- 'A';  }  char S\_KT(int x){  return x+'A';  }  int main(){  string P,C;  cout<<"nhap plaintext: ";getline(cin,P);  int a,b;cout<<"a,b: ";cin>>a>>b;  for(int i=0;i<P.size();i++){  int p=KT\_S(P[i]);  int c=(a\*p+b)%26;  C=C+S\_KT(c);  }  cout<<"Chuoi ma hoa: "<<C;  //Giai ma  int a1;P="";  for(int i=1;i<26;i+=2){  if(i\*a%26==1){  a1=i;break;  }  }  for(int i=0;i<C.size();i++){  int c=KT\_S(C[i]);  int p=a1\*(c-b+26)%26;  P=P+S\_KT(p);  }  cout<<endl<<"Chuoi giai ma: "<<P;  }  hill =======================================  c=k[]\*p;  p=k^-1[]\*c; |

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| //////////////////////VIGENERE\\\\\\\\\\\\\\\\\\\\\\\  #include <iostream>  #include <string>  using namespace std;  char S\_KT( int t){  return t +'A';  }  int KT\_S( char c){  return c -'A';  }  int main(){  string P,K,C;  cout<<"P: ";getline(cin,P);  cout<<"K: ";getline(cin,K);  for(int i=0;i<P.size();i++){  int p=KT\_S(P[i]);  int k=KT\_S(K[i]);  int c=(p+k)%26;  C=C+S\_KT(c);  }  cout<<"Chuoi ma hoa: "<<C;  //giai ma  P="";  for(int i=0;i<C.size();i++){  int c=KT\_S(C[i]);  int k=KT\_S(K[i]);  int p=(c-k+26)%26;  P=P+S\_KT(p);  }  cout<<"Chuoi giai ma: "<<P;  } | ///////////////////MONO  #include<bits/stdc++.h>  #include<string>  using namespace std;  int main(){  string C="",P,key="QWERTYUIOPLKJHGFDSAZXCVBNM";  cout<<"Plaintext: ";getline(cin,P);  for(int i=0;i<P.size();i++){  C+=key[P[i]-'A'];  }  cout<<"Chuoi ma hoa: "<<C<<endl;  P="";int pos;  //my code  for(int i=0;C[i]!='\0';i++){  for(int j=0;j<26;j++){  if(C[i]==key[j]) pos=j;  }  P+=char(pos)+65;  }  cout<<"Giai ma: "<<P;  } |

***//BAY MÁT 2 TIẾNG R ÁAAAAAAAAAAAAAAAAAAAAAAAAAAAA BY HUNGDZ(HUHU)***

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| ////////////////////////////VERNMAN\\\\\\\\\\\\\\\\\\\\\\XOR  #include <iostream>  #include <string>  using namespace std;  int main(){    string P, C;char k;  cout<<"nhap Chuoi P: "; getline(cin, P);  cout<<"nhap Khoa K: "; cin>>k;  C=P;  //ma hoa  for ( int i = 0; i< P.size(); i++) C[i] = P[i]^k;  cout<<"Chuoi ma hoa: "<<C;  //giai ma  for (int i = 0; i <C.size(); i++) P[i] = C[i]^k;  cout<<"\nChuoi giai ma: "<<P<<endl;  }  #include <iostream>#include <string> using namespace std;  int main(){////////////////hang cot  string P,C;char A[5][5];  cout<<"P: ";getline(cin,P);  //Ma hoa  int k=0;  for(int i=0;i<5;i++){  for(int j=0;j<5;j++){  A[i][j]=P[k];  k++;  if(k==P.size())k=0;  }  }  for(int i=0;i<5;i++){  for(int j=0;j<5;j++){  cout<<A[i][j]<<" ";  }  cout<<endl;  }  for(int i=0;i<5;i++){  for(int j=0;j<5;j++){  C=C+A[j][i];  }  }  cout<<endl<<"Chuoi ma hoa: "<<C;  //Giai ma  k=0;  for(int i=0;i<5;i++){  for(int j=0;j<5;j++){  A[j][i]=C[k];  k++;  }  }  P="";  for(int i=0;i<5;i++){  for(int j=0;j<5;j++){  P=P+A[i][j];  }  }  cout<<endl<<"Chuoi giai ma: "<<P;  } | /////////////////////////RAINFERENCE \_ ZICZAC  #include <iostream>  #include <string>  using namespace std;  int main(){  string P,C,h1,h2;  cout<<"Nhap P: ";getline(cin,P);  //Ma hoa  for(int i=0;i<P.size();i++){  if(i%2==0) h1=h1+P[i];  else h2+=P[i];  }  C=h1+h2;  cout<<"Chuoi ma hoa: "<<C;  // //Giai ma  // int n;string S=C;  // if(C.size()%2==0)n=0;  // else n=1;  // int x=C.size()/2+n;  // int y=0;  // for(int i=0;i<S.size();i++){  // if(i%2!=0){  // S[i]=C[i];  // x++;  // }  // else{  // S[i]=C[y];y++;  // }  // }  // cout<<endl<<"Chuoi giai ma: "<<S;  string c=C; string cc, pp; string PP;  if (c.size() %2 == 0){  for ( int i = 0; i <c.size() /2; i++){  cc += c[i];  }  for ( int j = c.size()/2 ; j <c.size(); j++ ){  pp +=c[j];  }    for ( int i = 0; i <= c.size()/2; i++){  PP += cc[i];  PP+= pp[i];  }  }else{  for ( int i = 0; i <= c.size() /2; i++){  cc += c[i];    }  for ( int j = c.size()/2 +1; j <c.size(); j++ ){  pp +=c[j];}    for ( int i = 0; i <= c.size()/2; i++){  PP += cc[i];  PP+= pp[i];  }  }  cout<<"\nChuoi giai ma: "<<PP<<endl;  } |