#include <iostream>

#include <cmath>

using namespace std;

const int maxr =30, maxc= 30;

void NhapMang( int \*\*a, int r, int c)

{

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

{

cout <<" Nhap " << c << " so nguyen cho dong thu " << i << ": ";

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

cin >> a[i][j];

}

}

void XuatMang( int \*\*a, int r, int c)

{

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

{

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

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

cout << endl;

}

}

bool KTSNT ( int n)

{

if ( n < 2)

return false;

else

for ( int i = 2; i <= sqrt( n \*1.0); i++)

if (( n % i) == 0)

return false;

return true;

}

int TongSNT ( int \*\*a, int r, int c)

{

int tong = 0;

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

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

if ( KTSNT(a[i][j]) == true)

tong += a[i][j];

return tong;

}

int main ()

{

int r,c;

int \*\*a;

do{cout <<" Nhap vao so dong: ";

cin >> r;

if ( r <= 0|| r > maxr)

cout <<" Nhap sai. Nhap lai\n";

} while (r <= 0|| r > maxr);

do{cout <<" Nhap vao so cot: ";

cin >> c;

if ( c <= 0|| c > maxc)

cout <<" Nhap sai. Nhap lai\n";

} while (c <= 0|| c > maxc);

a = new int \*[r];

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

a[i] = new int [c];

// Nhap mang

NhapMang( a, r, c);

cout <<" Mang da nhap la: \n";

XuatMang( a, r, c);

cout <<" Tong cac so nguyen to la: "<< TongSNT( a, r, c) << endl;

// Huy cap phat

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

delete [] a[i];

delete a;

system("pause");

return 0;

}