Câu 1:

#include <iostream>

#include <stdio.h>

using namespace std;

typedef int MT[20][20];

void nhapmt(MT a, char\* ten, int m, int n) {

cout << "===" << endl;

cout << "Nhap du lieu cho ma tran " << ten << endl << endl;

for (int i = 0; i < m; ++i) {

for (int j = 0; j < n; ++j) {

cout << "Nhap dong " << (i + 1) << " cot " << (j + 1) << ": ";

cin >> a[i][j];

}

}

}

void inmt(MT a, char\* ten, int m, int n) {

cout << "===" << endl;

cout << "Du lieu ma tran " << ten << ":" << endl;

for (int i = 0; i < m; ++i) {

for (int j = 0; j < n; ++j) {

printf("%5d%s", a[i][j], (j < n - 1) ? " " : "");

}

cout << endl;

}

}

void nhapmt(MT a, char\* ten, int n) {

nhapmt(a, ten, n, n);

}

void intmt(MT a, char\* ten, int n) {

inmt(a, ten, n, n);

}

void nhanmt(MT a, MT b, MT c, int m, int n, int p) {

int row = 0;

int col = 0;

for (int i = 0; i < n; ++i) {

for (int j = 0; j < p; ++j) {

c[row][col] = 0;

for (int k = 0; k < n; ++k) {

c[row][col] += a[i][k] \* b[j][k];

}

col = (col + 1) % p;

}

row = (row + 1) % m;

}

}

void nhanmt(MT a, MT b, MT c, int n) {

nhanmt(a, b, c, n, n, n);

}

Câu 2:

#include <iostream>

using namespace std;

typedef struct {

int a;

int b;

} PS;

ostream& operator<< (ostream& os, PS p) {

os << p.a << " " << p.b << endl;

return os;

}

istream& operator>> (istream& is, PS& p) {

is >> p.a;

is >> p.b;

return is;

}

int uscln(int x, int y) {

if (x == 0) {

return y;

}

if (y == 0) {

return x;

}

// base case

if (x == y) {

return x;

}

// a is greater

if (x > y) {

return uscln(x - y, y);

}

return uscln(x, y-x);

}

PS rutgon(PS p) {

int k = uscln(p.a, p.b);

p.a /= k;

p.b /= k;

return p;

}

PS operator+(PS p1, PS p2) {

p1.a += p2.a;

p1.b += p2.b;

return p1;

}

PS operator-(PS p1, PS p2) {

p1.a -= p2.a;

p1.b -= p2.b;

return p1;

}

PS operator\*(PS p1, PS p2) {

p1.a \*= p2.a;

p1.b \*= p2.b;

return p1;

}

PS operator/(PS p1, PS p2) {

p1.a /= p2.a;

p1.b /= p2.b;

return p1;

}

int main()

{

PS p, q, z, u, v;

PS s;

cout << "\nNhap cac phan so p, q, z, u, v\n";

cin >> p >> q>> z>> u>> v;

s = (p - q \* z) / (u + v);

cout << "\n Phan so s = " << s;

}