INPUT

#include <iostream>

using namespace std;

int main()

{

float a1,a2,a3,a4,a5,a6,a7,a8,c1,c2,c3,c4,c5,z,z1,z2;

float b1,b2,b3,b4;

cout << "SUBJECT TO " << endl;

cout << "ENTER THE COEFFICIENT X1:";

cin>>a1;

cout << "ENTER THE COEFFICIENT X2:";

cin>>a2;

cout << "ENTER THE CONSTANT:";

cin>>c1;

cout << "SUBJECT TO" << endl;

cout << "ENTER THE COEFFICIENT X1:";

cin>>a3;

cout << "ENTER THE COEFFICIENT X2:";

cin>>a4;

cout << "ENTER THE CONSTANT:";

cin>>c2;

cout << "OBJECTIVE FUCTIONS ARE ;" << endl;

cout<<endl;

cout<<"INITIAL"<<endl;

cout<<a1<<"X1"<<"+"<<a2<<"X2"<<"="<<c1<<endl;

cout<<a3<<"X1"<<"+"<<a4<<"X2"<<"="<<c2<<endl;

a5=a1\*a3;

a6=a2\*a3;

c3=c1\*a3;

a7=a3\*a1;

a8=a4\*a1;

c4=c2\*a1;

cout<<endl;

cout<<"AFTER MUL"<<endl;

cout<<a5<<"X1"<<"+"<<a6<<"X2"<<"="<<c3<<endl;

cout<<a7<<"X1"<<"+"<<a8<<"X2"<<"="<<c4<<endl;

b1=a5-a7;

b2=a6-a8;

c5=c3-c4;

b3=(c5-b1)/b2;

b4=(c1-a2\*b3)/a1;

cout<<endl;

cout<<b1<<"X1"<<"+"<<b4<<"X2"<<"="<<c5;

cout<<endl;

cout<<"b3="<<b3<<endl<<"b4="<<b4<<endl;

cout<<"ENTER THE COEFICIENT OF X1:";

cin>>z1;

cout<<"ENTER THE COEFICIENT OF X2:";

cin>>z2;

z=z1\*b4+z2\*b3;

cout<<"z:"<<z;

}

**OUTPUT**

SUBJECT TO

ENTER THE COEFFICIENT X1:10

ENTER THE COEFFICIENT X2:20

ENTER THE CONSTANT:120

SUBJECT TO

ENTER THE COEFFICIENT X1:8

ENTER THE COEFFICIENT X2:8

ENTER THE CONSTANT:80

OBJECTIVE FUCTIONS ARE ;

INITIAL

10X1+20X2=120

8X1+8X2=80

AFTER MUL

80X1+160X2=960

80X1+80X2=800

0X1+8X2=160

b3=2

b4=8

ENTER THE COEFICIENT OF X1:12

ENTER THE COEFICIENT OF X2:16

z:128