**package** LinearEquation;

**import** java.util.Scanner;

**public** **class** Main {

**public** **static** **void** main(String[] args) {

Scanner sc=**new** Scanner(System.***in***);

**double** a=sc.nextDouble();

**double** b=sc.nextDouble();

**double** c=sc.nextDouble();

**double** d=sc.nextDouble();

**double** e=sc.nextDouble();

**double** f=sc.nextDouble();

LinearEquationSystem l1=**new** LinearEquationSystem(a,b,c,d,e,f);

**double** v1=l1.getX();

**double** v2=l1.getY();

**boolean** v=l1.isSolvable();

**if**(v==**false**) {

v1=0;

v2=0;

}

System.***out***.println("X="+v1);

System.***out***.println("Y="+v2);

System.***out***.println(l1.toString());

}

}

**package** LinearEquation;

**public** **class** LinearEquationSystem {

**private** **double** a;

**private** **double** b;

**private** **double** c;

**private** **double** d;

**private** **double** e;

**private** **double** f;

**public** LinearEquationSystem(**double** a, **double** b, **double** c, **double** d, **double** e, **double** f) {

**super**();

**this**.a = a;

**this**.b = b;

**this**.c = c;

**this**.d = d;

**this**.e = e;

**this**.f = f;

}

**public** **double** getABCDEF() {

**return** a;

}

**public** **void** setA(**double** a) {

**this**.a = a;

}

**public** **double** getB() {

**return** b;

}

**public** **void** setB(**double** b) {

**this**.b = b;

}

**public** **double** getC() {

**return** c;

}

**public** **void** setC(**double** c) {

**this**.c = c;

}

**public** **double** getD() {

**return** d;

}

**public** **void** setD(**double** d) {

**this**.d = d;

}

**public** **double** getE() {

**return** e;

}

**public** **void** setE(**double** e) {

**this**.e = e;

}

**public** **double** getF() {

**return** f;

}

**public** **void** setF(**double** f) {

**this**.f = f;

}

**public** **boolean** isSolvable() {

**boolean** isSolv=**true**;

**double** g=**this**.a;

**double** h=**this**.b;

**double** i=**this**.c;

**double** j=**this**.d;

**double** sum= (g\*j)-(h\*i);

**if** (sum==0) {

isSolv=**false**;

}

**return** isSolv;

}

**public** **double** getX() {

**double** g=**this**.a;

**double** h=**this**.b;

**double** i=**this**.c;

**double** j=**this**.d;

**double** k=**this**.e;

**double** l=**this**.f;

**double** x=(j\*k-h\*l)/(g\*j-h\*i);

**return** x;

}

**public** **double** getY() {

**double** g=**this**.a;

**double** h=**this**.b;

**double** i=**this**.c;

**double** j=**this**.d;

**double** k=**this**.e;

**double** l=**this**.f;

**double** y=(g\*l-g\*i)/(g\*j-h\*i);

**return** y;

}

@Override

**public** String toString() {

**return** a+"x +"+b+"y ="+c+"\n"+d+"x +"+e+"y ="+f;

}

}