**JAVA-PROJ-02-15E218**

import java.io.BufferedReader;

import java.io.FileReader;

import java.io.FileNotFoundException;

import java.io.IOException;

public class CorelationMatrix {

public static void main(String[] args) throws IOException,FileNotFoundException {

BufferedReader br = new BufferedReader(new FileReader("input.txt"));

double arr[][];

arr = new double[3][3];

for (int i=0; i < 3; i++) {

for (int j = 0;j < 3;j++) {

arr[i][j] = Double.valueOf(br.readLine());

}

}

double standardDeviation[][];

standardDeviation = new double[3][3];

for (int i=0; i < 3; i++) {

for (int j = 0;j < 3;j++) {

if (i == j) {

standardDeviation[i][j] = 1/Math.sqrt(arr[i][j]);

}

}

}

double result[][];

result = new double[3][3];

for (int i = 0; i < 3; i++) {

for (int j = 0; j < 3; j++) {

for (int k = 0; k < 3; k++) {

result[i][j] = result[i][j] + arr[i][k] \* standardDeviation[k][j];

}

}

}

double result1[][];

result1 = new double[3][3];

for (int i = 0; i < 3; i++) {

for (int j = 0; j < 3; j++) {

for (int k = 0; k < 3; k++) {

result1[i][j] = result1[i][j] + result[i][k] \* standardDeviation[k][j];

}

}

}

for (int i=0; i < 3; i++) {

for (int j = 0;j < 3;j++) {

System.out.print(result1[i][j] + " ");

}

System.out.println();

}

}

}