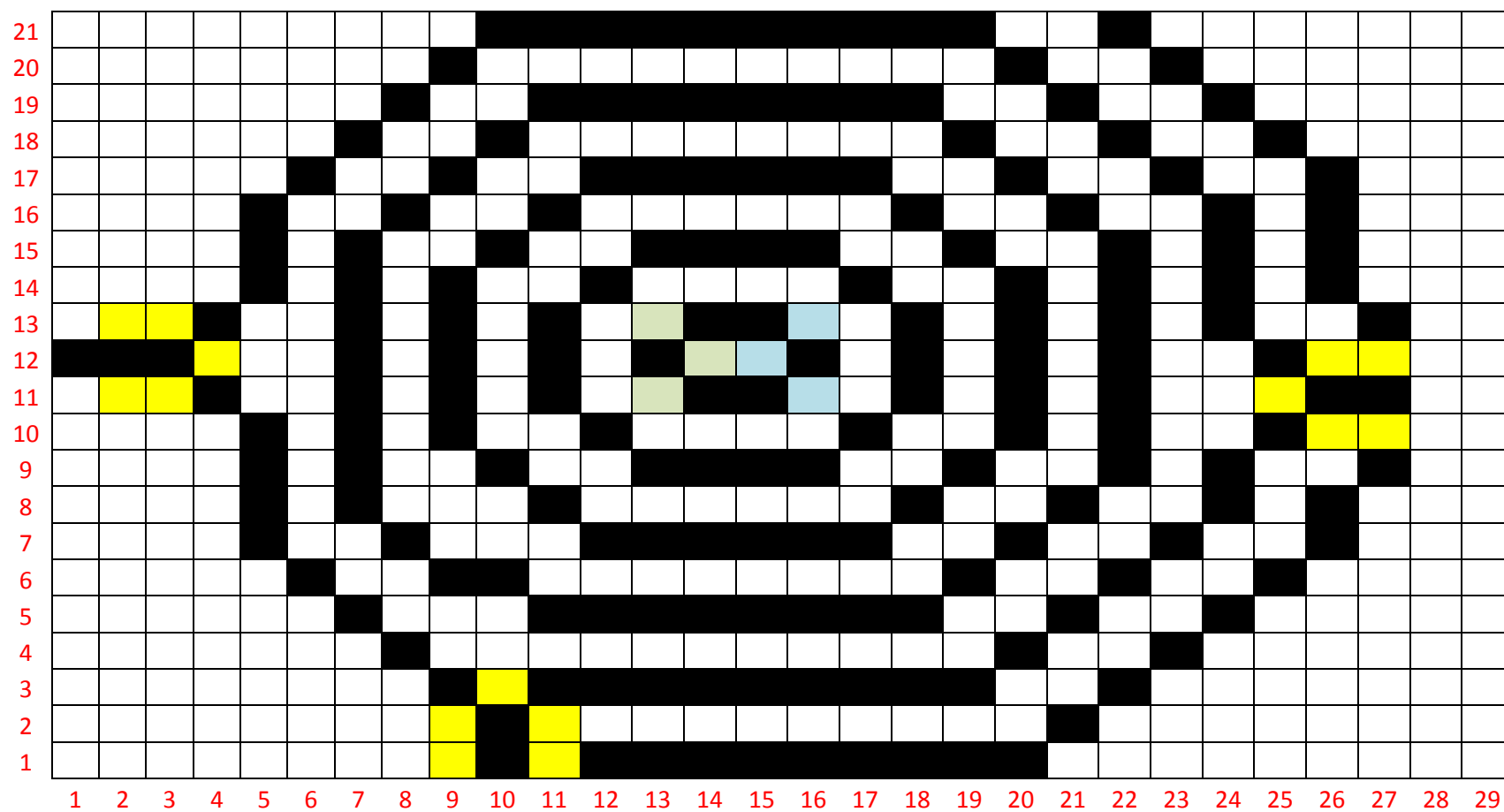




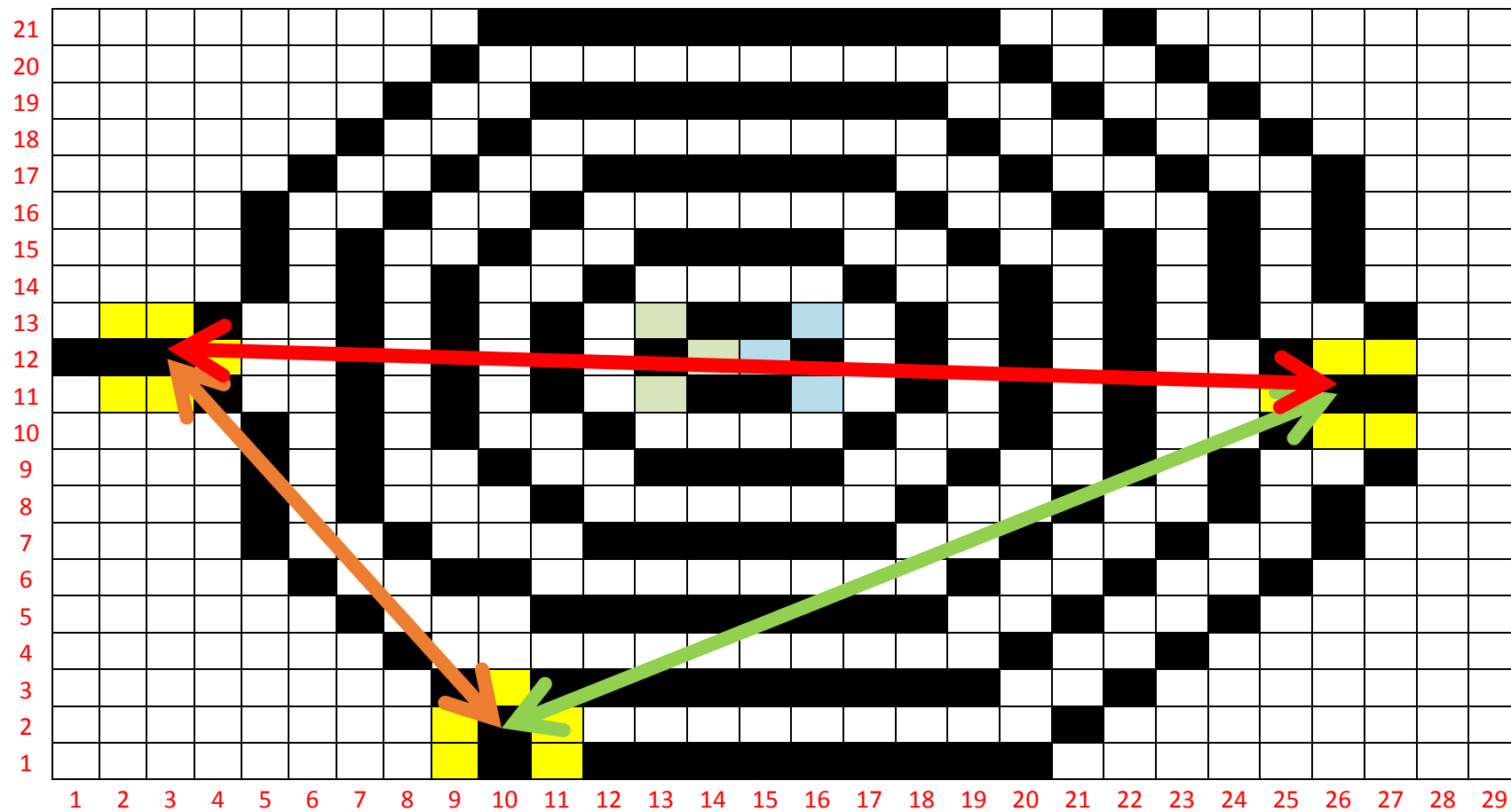


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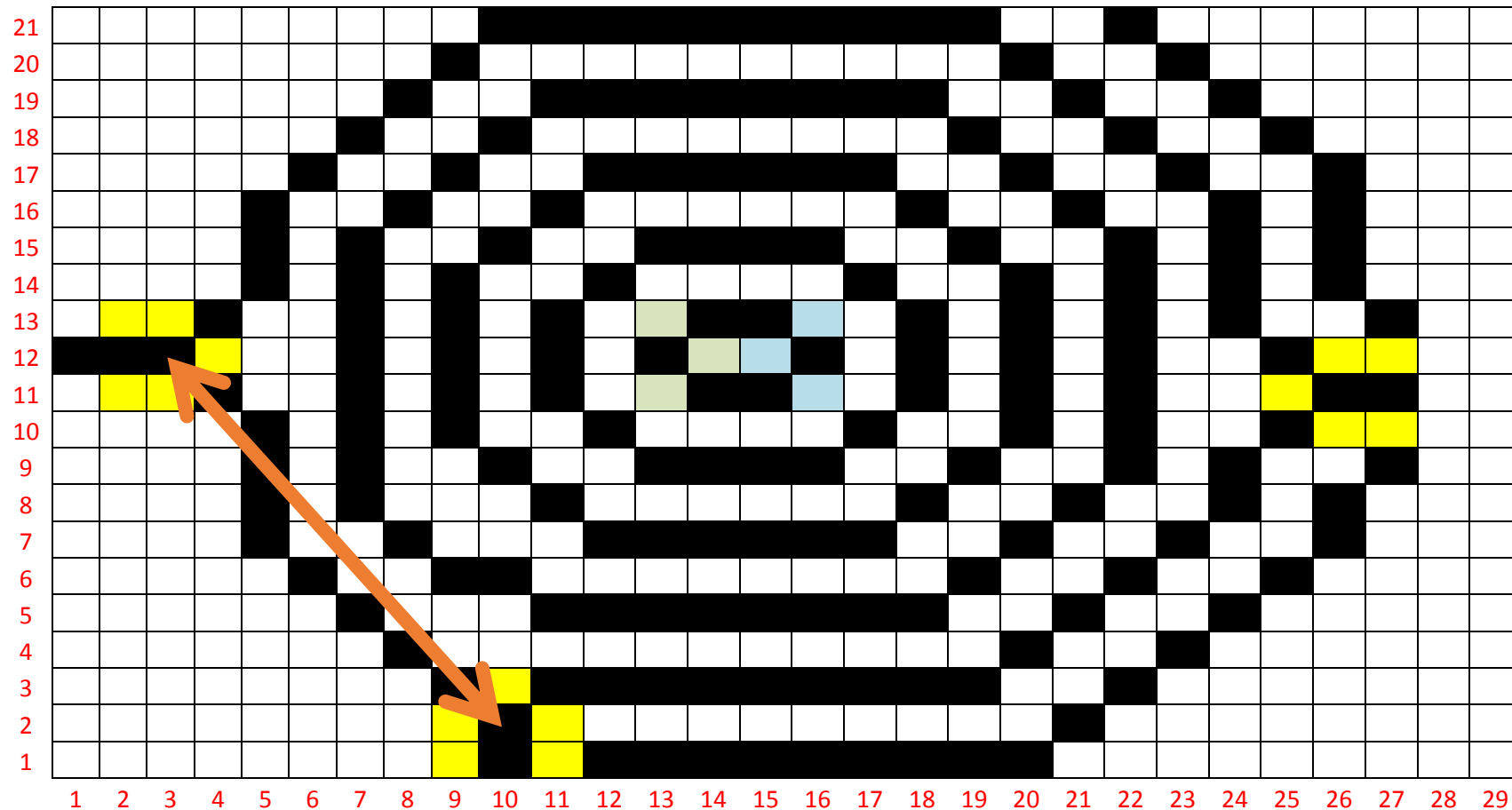
Three bifurcations at coordinates:

(3;12), (10;2)and (26;11)



Bifurcations at coordinates:

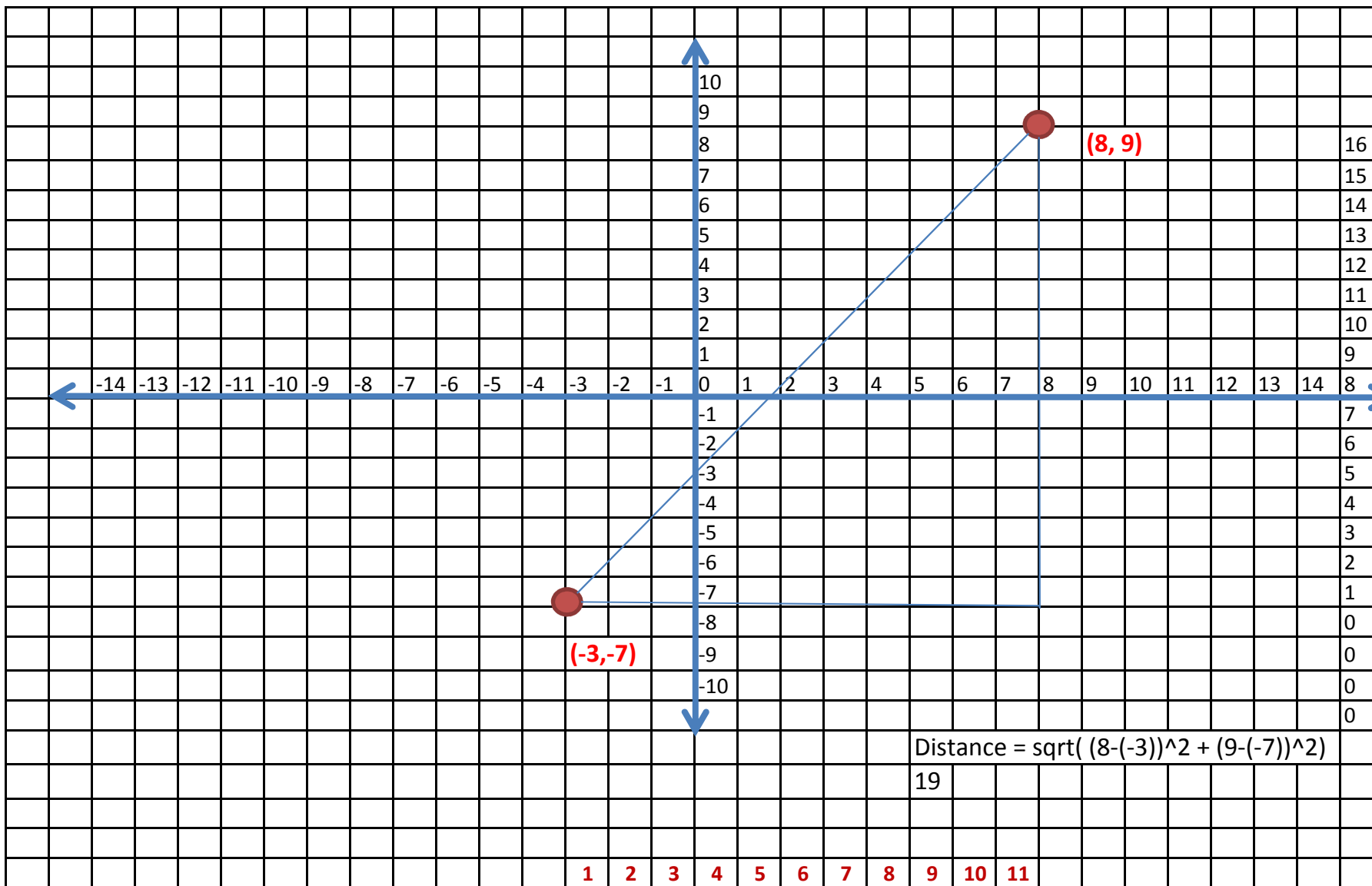
(3;12), (10;2) and (26;11). Distance between (3;12) and (10;2)?



Distance between (3;12) and (10;2)?

$$\text{Distance} = \text{sqrt}((x_2 - x_1)^2 + (y_2 - y_1)^2)$$

$$= \text{sqrt}((10 - 3)^2 + (2 - 12)^2) = \text{sqrt}(7^2 + (-10)^2) = \text{sqrt}(49 + 100) = \text{sqrt}(149) = 12.207$$



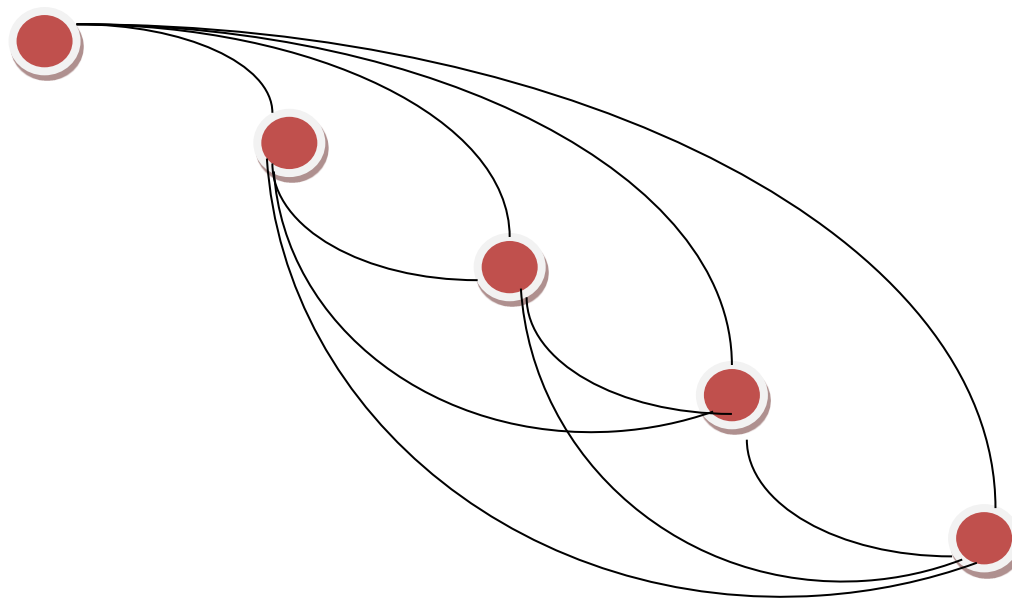
Coordinates	Bifurcations		x1	y1	xk	yk	Distance	x2	y3	x3	y3	Distance		
	x	y	k=2, 3											
1	1	2	1	2	3	5	3.6056	3	5	4	2	3.1623		
2	3	5	1	2	4	2	3.0000							
3	4	2					6.6056	units				3.1623	Total distance	9.7678

Coordinates	Bifurcations		x1	y1	xk	yk	Distance	x2	y2	x3	y3	Distance		
	x	y	k=2, 3											
1	4	4	4	4	6	7	3.6056	6	7	7	4	3.1623		
2	6	7	4	4	7	4	3.0000							
3	7	4					6.6056	units				3.1623	Total distance	9.7678

Number of coordinates: 4

How many distances are there in the
case of 4 sets of coordinates?

Distances between 4 coordinates



How can this be implemented if
there are 150 sets of coordinates

?

```
/**
 * Display the number of distances to be calculated for n number of
 * coordinates
 */

public class DisplayNoOfDistances
{
    public static void main(String[] args)
    {
        int n = 5;
        int noOfDistances = 0;
        for (int i=0; i<n-1; i++)
        {
            for (int j=i+1; j<n; j++)
            {
                noOfDistances++;
                System.out.println("From coordinate number "+i+" to
coordinate number "+j);
            }
        }
        System.out.println("Total number of distances : "+noOfDistances);
    }
}
```

Output:

```
From coordinate number 0 to coordinate number 1
From coordinate number 0 to coordinate number 2
From coordinate number 0 to coordinate number 3
From coordinate number 0 to coordinate number 4
From coordinate number 1 to coordinate number 2
From coordinate number 1 to coordinate number 3
From coordinate number 1 to coordinate number 4
From coordinate number 2 to coordinate number 3
From coordinate number 2 to coordinate number 4
From coordinate number 3 to coordinate number 4
Total number of distances : 10
```

Year	Faculty	Department	Module	CalGroup	Activity	Group	Day	Period	Building	BuildingName	Room	Alloc	Capacity	Max
2014	SCI	EARTH SCI	APG231	SEM 1	Lecture	1	MON	2	7	LECTURE H	C9	0	180	120
2014	SCI	EARTH SCI	APG231	SEM 1	Lecture	1	TUE	2	15	PREFABS	OC	0	120	120
2014	SCI	EARTH SCI	APG231	SEM 1	Lecture	1	WED	2	10	LECTURE H	SC8	0	130	120
2014	SCI	EARTH SCI	APG231	SEM 1	Practical	1	TUE	5	4	OLD ARTS	L3	0	60	120
2014	SCI	EARTH SCI	APG231	SEM 1	Practical	1	TUE	6	4	OLD ARTS	L3	0	60	120
2014	SCI	EARTH SCI	APG231	SEM 1	Practical	2	TUE	5	4	OLD ARTS	L7	0	60	60
2014	SCI	EARTH SCI	APG231	SEM 1	Practical	2	TUE	6	4	OLD ARTS	L7	0	60	60
2014	SCI	EARTH SCI	APG231	SEM 1	Practical	3	FRI	3	4	OLD ARTS	L3	0	60	60
2014	SCI	EARTH SCI	APG231	SEM 1	Practical	3	FRI	4	4	OLD ARTS	L3	0	60	60
2014	SCI	EARTH SCI	APG232	SEM 2	Lecture	1	MON	2	6	LECTURE H	B4	0	130	110
2014	SCI	EARTH SCI	APG232	SEM 2	Lecture	1	TUE	3	17	DENTISTRY	D13	0	110	110
2014	SCI	EARTH SCI	APG232	SEM 2	Practical	1	TUE	5	4	OLD ARTS	L3	0	60	60
2014	SCI	EARTH SCI	APG232	SEM 2	Practical	1	TUE	6	4	OLD ARTS	L3	0	60	60
2014	SCI	EARTH SCI	APG232	SEM 2	Practical	2	FRI	2	29	LIFE SCIENC	B1	0	110	110
2014	SCI	EARTH SCI	APG232	SEM 2	Practical	2	FRI	3	29	LIFE SCIENC	B1	0	110	110
2014	SCI	EARTH SCI	APG232	SEM 2	Practical	2	FRI	4	29	LIFE SCIENC	B1	0	110	110
2014	SCI	EARTH SCI	APG232	SEM 2	Practical	3	FRI	2	4	OLD ARTS	L3	0	60	60
2014	SCI	EARTH SCI	APG232	SEM 2	Practical	3	FRI	3	4	OLD ARTS	L3	0	60	60
2014	SCI	EARTH SCI	APG232	SEM 2	Practical	3	FRI	4	4	OLD ARTS	L3	0	60	60
2014	SCI	EARTH SCI	APG232	SEM 2	Practical	4	WED	5	4	OLD ARTS	L7	0	60	60
2014	SCI	EARTH SCI	APG232	SEM 2	Practical	4	WED	6	4	OLD ARTS	L7	0	60	60
2014	SCI	EARTH SCI	APG232	SEM 2	Practical	4	WED	7	4	OLD ARTS	L7	0	60	60
2014	SCI	EARTH SCI	APG311	SEM 1	Lecture	1	MON	3	15	PREFABS	OA	0	120	120
2014	SCI	EARTH SCI	APG311	SEM 1	Lecture	1	TUE	2	17	DENTISTRY	C2	0	220	120
2014	SCI	EARTH SCI	APG311	SEM 1	Lecture	1	WED	1	12	NEW SCIEN	SC6	0	200	120

Science Faculty Timetable 2014

Period	Mon				Tue				Wed				Thu				Fri			
1	COS114.3	Lect	SEM-1	CILT.B	COS114.2	Lect	SEM-1	CILT.B	COS114.3	Lect	SEM-1	CILT.B	COS114.2	Lect	SEM-1	CILT.B	COS114.4	Lect	SEM-1	CILT.B
	COS114.8	Lect	SEM-1	WIN LAB	COS114.7	Lect	SEM-1	WIN LAB	COS114.8	Lect	SEM-1	WIN LAB	COS114.7	Lect	SEM-1	WIN LAB	CSC211.1	Lect	SEM-1	C3
	COS124.3	Lect	SEM-2	CILT.B	COS124.2	Lect	SEM-2	CILT.B	COS124.3	Lect	SEM-2	CILT.B	CSC312.1	Lect	SEM-1	SC254	COS124.4	Lect	SEM-2	CILT.B
	COS124.8	Lect	SEM-2	WIN LAB	COS124.7	Lect	SEM-2	WIN LAB	COS124.8	Lect	SEM-2	WIN LAB	COS124.2	Lect	SEM-2	CILT.B	CSC212.1	Lect	SEM-2	SC7
	COS101.2	Lect	SEM1&2	SC9	COS727.1	Lect	SEM-2	SEM 1D	COS101.2	Lect	SEM1&2	D3	COS124.7	Lect	SEM-2	WIN LAB	APM112.1	Lect	SEM-1	SC3
	MAM126.1	Lect	SEM-1	S1	COS726.1	Lect	TERM 2	SC254	MAT311.1	Lect	SEM-1	SC237	CSC311.1	Lect	SEM-2	SC254	MAT312.1	Lect	SEM-1	SC2.10
	MAM126.10	Tuto	SEM-1	GH1.2	COS101.1	Lect	SEM1&2	SC1	QSC131.2	Lect	SEM-1	OE	COS101.1	Lect	SEM1&2	SC3	APM122.1	Lect	SEM-2	SC214
	MAT312.1	Lect	SEM-1	SC2.10	MAM126.3	Tuto	SEM-1	OB	MAT321.1	Lect	SEM-2	SC254	MAT212.1	Lect	SEM-2	SC2.10	MAT322.1	Lect	SEM-2	SC2.10
	QSC131.1	Lect	SEM-1	SC1	MAT212.1	Lect	SEM-2	SC2.10	QSC132.1	Lect	SEM-2	LFS AUD	QSC132.1	Tuto	SEM-2	GH3.1	QSC132.1	Lect	SEM-2	SC1
	MAM127.1	Lect	SEM-2	A5	QSC132.10	Tuto	SEM-2	GH3.1	MAM150.2	Lect	SEM1&2	OB	MAM151.2	Lect	SEM1&2	PHY1.40	QSC132.2	Lect	SEM-2	C1
	MAT322.1	Lect	SEM-2	SC2.10	MAM151.2	Lect	SEM1&2	T5C	MAM151.2	Lect	SEM1&2	OM	MAM737.1	Lect	SEM1&2	DL10	BUS132.3	Lect	SEM-2	C5
	MAM150.2	Lect	SEM1&2	DL2	PHY116.1	Lect	SEM-1	SC6	STA211.1	Lect	SEM-1	SC7	BUS132.2	Lect	SEM-2	S1				
	MAM151.1	Lect	SEM1&2	PHY1.40	STA331.1	Lect	SEM-1	D13	BUS132.2	Lect	SEM-2	GH1								
	STA211.1	Lect	SEM-1	SC7	STA333.1	Lect	SEM-1	A5	STA221.1	Lect	SEM-2	SC7								
BUS132.1	Lect	SEM-2	B1	STA332.1	Lect	SEM-2	D13													
STA221.1	Lect	SEM-2	SC7																	
2	COS114.1	Lect	SEM-1	CILT.B	COS114.4	Lect	SEM-1	CILT.B	COS114.4	Lect	SEM-1	CILT.B	COS114.1	Lect	SEM-1	CILT.B	COS114.5	Lect	SEM-1	CILT.B
	COS114.6	Lect	SEM-1	WIN LAB	COS124.4	Lect	SEM-2	CILT.B	COS124.4	Lect	SEM-2	CILT.B	COS114.6	Lect	SEM-1	WIN LAB	CSC312.1	Tuto	SEM-1	SC254
	CSC312.1	Lect	SEM-1	SC254	APM112.1	Lect	SEM-1	SEM 1A	APM112.1	Lect	SEM-1	SC237	CSC211.1	Lect	SEM-1	OB	COS124.5	Lect	SEM-2	CILT.B
	COS124.1	Lect	SEM-2	CILT.B	APM112.1	Lect	SEM-1	SEM 1B	MAT211.1	Lect	SEM-1	OE	COS124.1	Lect	SEM-2	CILT.B	COS727.1	Lect	SEM-2	SEM 1D
	COS124.6	Lect	SEM-2	WIN LAB	MAT311.1	Lect	SEM-1	SC237	APM122.1	Lect	SEM-2	SC237	COS124.6	Lect	SEM-2	WIN LAB	CSC311.1	Prac	SEM-2	SUN LAB
	CSC311.1	Lect	SEM-2	SC254	APM122.1	Lect	SEM-2	SC214	MAT221.1	Lect	SEM-2	N98	CSC212.1	Lect	SEM-2	SC2	MAT211.1	Prac	SEM-1	SC7
	MAM115.1	Lect	SEM-1	C2	MAT321.1	Lect	SEM-2	SC254	QSC132.3	Lect	SEM-2	A2	COS711.1	Lect	TERM 1	999	MAT221.1	Prac	SEM-2	N98
	MAM115.2	Lect	SEM-1	SEM A1	MAM737.1	Lect	SEM1&2	DL110	QSC132.19	Tuto	SEM-2	MS1.2	MAM115.1	Lect	SEM-1	SC5	QSC132.4	Tuto	SEM-2	MS1.5
	MAT211.1	Lect	SEM-1	D13	STA211.1	Lect	SEM-1	SC7	STA331.1	Lect	SEM-1	C3	MAM115.2	Lect	SEM-1	C2	QSC132.7	Tuto	SEM-2	MS1.6
	QSC131.3	Tuto	SEM-1	OM	STA221.1	Lect	SEM-2	SC7	STA333.1	Lect	SEM-1	A5	MAT312.1	Lect	SEM-1	SC2.10	QSC132.24	Tuto	SEM-2	T5B
	QSC131.4	Tuto	SEM-1	GH3.4					BUS132.3	Lect	SEM-2	C5	MAT322.1	Lect	SEM-2	SC2.10	MAM152.1	Lect	SEM1&2	SC6
	QSC131.5	Tuto	SEM-1	GH3.14					STA332.1	Lect	SEM-2	OB	MAM150.1	Lect	SEM1&2	SC6	MAT105.1	Lect	SEM1&2	SC4
	MAT221.1	Lect	SEM-2	OA									MAM151.1	Lect	SEM1&2	G50A	MAT105.2	Lect	SEM1&2	SC9
	QSC132.1	Lect	SEM-2	LFS AUD									MAM151.3	Lect	SEM1&2	PHY1.35				
	QSC132.2	Lect	SEM-2	C1									MAM151.3	Tuto	SEM1&2	PHY1.40				
	MAM150.1	Lect	SEM1&2	SC2									MAM787.1	Lect	SEM1&2	DL10				
	MAM787.1	Lect	SEM1&2	SC214									PHY111.1	Lect	SEM-1	SC9				
	PHY111.1	Lect	SEM-1	SC9									PHY121.1	Lect	SEM-2	SC9				
	PHY121.1	Lect	SEM-2	SC9									STA111.1	Lect	SEM-1	SC3				
	STA111.1	Lect	SEM-1	SC3									BUS132.4	Lect	SEM-2	A4				
	BUS132.4	Lect	SEM-2	A4									STA121.1	Lect	SEM-2	OM				
	STA121.1	Lect	SEM-2	SEM A1									STA125.1	Lect	SEM-2	SC5				
	STA125.1	Lect	SEM-2	SC5									STA151.1	Lect	SEM1&2	OD				
	STA151.1	Lect	SEM1&2	SC7																

Period	Mon				Tue				Wed				Thu				Fri			
3	COS114.2	Lect	SEM-1	CILT.B	COS114.5	Lect	SEM-1	CILT.B	COS114.5	Lect	SEM-1	CILT.B	COS114.3	Lect	SEM-1	CILT.B	COS114.1	Lect	SEM-1	CILT.B
	COS114.7	Lect	SEM-1	WIN LAB	CSC312.1	Lect	SEM-1	SC254	CSC211.1	Tuto	SEM-1	P107	COS114.8	Lect	SEM-1	WIN LAB	COS114.6	Lect	SEM-1	WIN LAB
	CSC211.1	Lect	SEM-1	SC237	COS124.5	Lect	SEM-2	CILT.B	COS124.5	Lect	SEM-2	CILT.B	COS124.3	Lect	SEM-2	CILT.B	CSC312.1	Prac	SEM-1	THINTA
	COS124.2	Lect	SEM-2	CILT.B	CSC311.1	Lect	SEM-2	SC254	CSC212.2	Tuto	SEM-2	THINTA	COS124.8	Lect	SEM-2	WIN LAB	COS124.1	Lect	SEM-2	CILT.B
	COS124.7	Lect	SEM-2	WIN LAB	MAT211.1	Lect	SEM-1	SC9	MAM126.2	Lect	SEM-1	GH2	COS711.1	Lect	TERM 1	999	COS124.6	Lect	SEM-2	WIN LAB
	CSC212.1	Lect	SEM-2	OD	MAT221.1	Lect	SEM-2	C3	QSC132.11	Tuto	SEM-2	DL105	COS101.2	Lect	SEM1&2	GH2	COS727.1	Lect	SEM-2	SEM 1D
	COS101.1	Lect	SEM1&2	SC3	QSC132.12	Tuto	SEM-2	GH3.2	MAM151.3	Lect	SEM1&2	PHY1.48	MAT312.1	Prac	SEM-1	SC2.10	CSC311.1	Prac	SEM-2	SUN LAB
	COF714.1	Lect	SEM-1	SC214	MAM151.3	Lect	SEM1&2	G50A	MAM152.1	Lect	SEM1&2	SC8	QSC131.2	Lect	SEM-1	OA	MAM115.1	Lect	SEM-1	C2
	MAM126.13	Tuto	SEM-1	DL104	MAM151.3	Tuto	SEM1&2	PHY1.40	MAT105.1	Lect	SEM1&2	SC4	MAT322.1	Prac	SEM-2	SC2.10	MAM115.2	Lect	SEM-1	SC4
	MAM126.14	Tuto	SEM-1	DL109	MAM152.1	Lect	SEM1&2	SC8	MAT105.2	Lect	SEM1&2	SC9	QSC132.2	Tuto	SEM-2	MS1.5	MAT211.1	Prac	SEM-1	SC7
	MAM126.15	Tuto	SEM-1	DL110	MAT105.1	Lect	SEM1&2	SC4	STA331.1	Tuto	SEM-1	SC237	QSC132.23	Tuto	SEM-2	T5B	QSC131.1	Tuto	SEM-1	MS1.4
	MAT311.1	Lect	SEM-1	SC254	MAT105.2	Lect	SEM1&2	B3	STA333.1	Tuto	SEM-1	A5	QSC132.25	Tuto	SEM-2	GH3.7	QSC131.2	Tuto	SEM-1	OF
	MAT321.1	Lect	SEM-2	SC254					BUS132.2	Lect	SEM-2	B2	MAM150.2	Lect	SEM1&2	SC8	MAT221.1	Prac	SEM-2	N98
	MAM151.2	Lect	SEM1&2	PHY1.40					STA142.1	Lect	SEM-2	SC1	STA211.1	Tuto	SEM-1	SC2	QSC132.3	Lect	SEM-2	DL2
	MAM151.3	Lect	SEM1&2	PHY1.35					STA332.1	Prac	SEM-2	ADM LAB	BUS132.2	Lect	SEM-2	GH1	MAM150.1	Lect	SEM1&2	SC5
	PHY116.1	Lect	SEM-1	SC6									STA142.1	Lect	SEM-2	L20	MAM151.1	Lect	SEM1&2	PHY1.40
	PHY121.3	Tuto	SEM-2	DL105									STA221.1	Tuto	SEM-2	SC9	MAM757.1	Lect	SEM1&2	SC214
	PHY121.3	Tuto	SEM-2	DL110													PHY111.1	Lect	SEM-1	SC9
	PHY121.3	Tuto	SEM-2	GH3.3													PHY121.1	Lect	SEM-2	SC9
	PHY121.3	Tuto	SEM-2	GH3.6													STA111.1	Lect	SEM-1	SC6
PHY121.3	Tuto	SEM-2	SEM 1C													BUS132.3	Lect	SEM-2	GH3	
PHY121.3	Tuto	SEM-2	SEM 1F													STA121.1	Lect	SEM-2	C3	
																	STA125.1	Lect	SEM-2	SC6
																	STA151.1	Lect	SEM1&2	GH2
4	COS114.5	Tuto	SEM-1	WIN LAB	COS114.2	Tuto	SEM-1	WIN LAB	COS114.3	Tuto	SEM-1	WIN LAB	COS114.4	Tuto	SEM-1	WIN LAB	COS114.1	Tuto	SEM-1	WIN LAB
	COS124.1	Tuto	SEM-2	WIN LAB	COS124.2	Tuto	SEM-2	WIN LAB	CSC211.1	Tuto	SEM-1	P107	COS124.4	Tuto	SEM-2	WIN LAB	CSC312.1	Prac	SEM-1	THINTA
	COF714.1	Lect	SEM-1	SC214	MAM110.1	Lect	SEM-1	999	COS124.3	Tuto	SEM-2	WIN LAB	COS711.1	Lect	TERM 1	999	COS124.5	Tuto	SEM-2	WIN LAB
	MAM126.2	Lect	SEM-1	GH2	MAM115.1	Tuto	SEM-1	SC1	CSC212.2	Tuto	SEM-2	THINTA	COS101.2	Tuto	SEM1&2	SC8	CSC311.1	Prac	SEM-2	SUN LAB
	MAT212.1	Lect	SEM-2	SC2.10	MAM115.2	Tuto	SEM-1	D3	COS101.1	Tuto	SEM1&2	SC5	MAM126.16	Tuto	SEM-1	A3	APM112.1	Tuto	SEM-1	OF
	QSC132.16	Tuto	SEM-2	MS1.8	MAM126.4	Tuto	SEM-1	SC214	MAM126.1	Lect	SEM-1	L20	MAM126.16	Tuto	SEM-1	DL3	MAT211.1	Prac	SEM-1	SC7
	QSC132.20	Tuto	SEM-2	OE	QSC131.2	Lect	SEM-1	OC	MAM126.6	Tuto	SEM-1	C10	MAT312.1	Prac	SEM-1	SC2.10	QSC131.10	Tuto	SEM-1	MS1.6
	MAM151.2	Tuto	SEM1&2	SC7	MAM150.1	Tuto	SEM1&2	OB	MAM126.9	Tuto	SEM-1	DL105	MAT322.1	Prac	SEM-2	SC2.10	QSC131.11	Tuto	SEM-1	MS1.10
	MAM151.5	Tuto	SEM1&2	PHY1.40	MAM151.3	Lect	SEM1&2	G50A	QSC131.1	Lect	SEM-1	SC1	QSC132.3	Tuto	SEM-2	MS1.2	QSC131.12	Tuto	SEM-1	MS1.5
	MAM151.6	Tuto	SEM1&2	PHY1.35	MAM151.4	Tuto	SEM1&2	SC254	MAM127.1	Lect	SEM-2	A5	MAM151.2	Lect	SEM1&2	SC7	APM122.1	Tuto	SEM-2	SC214
	MAM152.3	Tuto	SEM1&2	SC8	PHY111.1	Tuto	SEM-1	SC9	MAM150.2	Tuto	SEM1&2	SC4	PHY116.1	Tuto	SEM-1	PHY1.40	MAT221.1	Prac	SEM-2	N98
	MAT105.1	Tuto	SEM1&2	SC4	PHY121.1	Tuto	SEM-2	SC9	STA111.1	Tuto	SEM-1	LFS AUD	PHY116.3	Tuto	SEM-1	PHY0.50	PHY121.2	Tuto	SEM-2	C9
	MAT105.2	Tuto	SEM1&2	LFS AUD	STA111.3	Tuto	SEM-1	N98	STA331.1	Tuto	SEM-1	SC237	STA211.1	Tuto	SEM-1	SC2	STA111.2	Tuto	SEM-1	OB
	STA331.1	Lect	SEM-1	SC237	STA211.1	Lect	SEM-1	SC7	STA333.1	Tuto	SEM-1	A5	STA221.1	Tuto	SEM-2	SC9				
	STA333.1	Lect	SEM-1	A5	STA125.1	Tuto	SEM-2	SC1	BUS132.1	Lect	SEM-2	B1								
	STA332.1	Lect	SEM-2	SC6	STA221.1	Lect	SEM-2	SC7	STA121.1	Tuto	SEM-2	LFS AUD								
					STA151.1	Tuto	SEM1&2	SC3	STA332.1	Prac	SEM-2	ADM LAB								

Period	Mon	Tue	Wed	Thu	Fri
7	COS114.1 Prac SEM-1 WIN LAB CSC211.1 Prac SEM-1 SUN LAB COS727.1 Prac SEM-2 C10 CSC212.1 Prac SEM-2 SUN LAB COS794.1 Lect SEM1&2 SC237 MAM115.1 Prac SEM-1 SC5 MAM115.3 Prac SEM-1 OD MAT311.1 Prac SEM-1 SC254 MAT212.1 Prac SEM-2 SC2.10 MAT321.1 Prac SEM-2 SC254 MAM150.1 Prac SEM1&2 OA PHY111.1 Prac SEM-1 PHY1.39 PHY121.1 Prac SEM-2 PHY1.39 STA111.1 Prac SEM-1 ADM LAB STA501.1 Lect SEM-1 SC9 STA121.1 Prac SEM-2 OB STA125.1 Prac SEM-2 ADM LAB COF712.1 Lect TERM 1 SC213 STA151.1 Prac SEM1&2 SC1		COS114.3 Prac SEM-1 WIN LAB COS124.3 Prac SEM-2 WIN LAB CSC212.1 Tuto SEM-2 THINTA COS101.1 Prac SEM1&2 SUN LAB MAM150.2 Prac SEM1&2 OB MAM150.3 Prac SEM1&2 S/HALL PHY116.1 Prac SEM-1 PHY1.40 STA331.1 Prac SEM-1 ADM LAB STA333.1 Prac SEM-1 A5 STA332.2 Prac SEM-2 D3 STA151.2 Prac SEM1&2 LFS AUD	COS114.4 Prac SEM-1 WIN LAB COS124.4 Prac SEM-2 WIN LAB COS101.3 Prac SEM1&2 SUN LAB APM112.1 Prac SEM-1 SC214 MAT311.2 Prac SEM-1 SC237 APM122.1 Prac SEM-2 SC214 MAT321.2 Prac SEM-2 SC237 MAM151.1 Prac SEM1&2 PHY0.46 MAM151.2 Prac SEM1&2 PHY0.50 MAM151.3 Prac SEM1&2 G50A PHY116.2 Prac SEM-1 PHY1.40 STA211.1 Prac SEM-1 ADM LAB STA221.1 Prac SEM-2 ADM LAB	CSC312.1 Prac SEM-1 THINTA CSC311.1 Prac SEM-2 SC237 COS101.2 Prac SEM1&2 WIN LAB MAT212.1 Prac SEM-2 SC2.10
8		QSC131.1 Lect SEM-1 DL3 QSC132.1 Lect SEM-2 SC1	BUS131.1 Lect SEM-1 SC2		
9		QSC131.1 Lect SEM-1 DL3 QSC132.1 Lect SEM-2 SC1	BUS131.1 Lect SEM-1 SC2		
10		QSC131.1 Lect SEM-1 DL3 QSC132.1 Tuto SEM-2 SC1	BUS131.1 Tuto SEM-1 SC4 BUS131.2 Tuto SEM-1 SC2		