

Today's agenda by Into to 2D Acorays by Point material Row wise
la Print metia Parisiss
b Point matoin Colwise
6 Point matoin in wave form
La Assay List
EN AIGOITO



/Intoo		Sul Su Su	be a coolist	_ <b>.</b>	
		0	1	2	
	0	99	90	96	
	上	90	95	95	-> 2D Assay
8000	2	75	80	30	
	3	100	100	99	
	પ	100	100	10.1	

Syntan:	in CJ	] am	= new	int[5][3]
	0	1	2	Uran
9	0	•	0	
1	0	0	04	S.o.p (000[4][1]);
2	0	0	0	
3	0	0	0	626-20
પ	O	0	0	243 Cae[1[3] = 100?

45×3:15 elements

No of columns: arrolo]. length



a) Point	mato	האה	9,00	ม <b>ะเร</b> ีย								
		L	Poin	t the	_ giv	ien r	Ikan	m][m	<u>] </u> %	) ટાંધન	2.	
		P	1	2	3	ч						
106[4][5]?	0	10	20	30	40	50		10	20	3.	40	60
	1	60	70	80	90	100		60	70	80	90	100
	2 1	-10	120	130	<b>J</b> 40	150		110	120	130	الرو	150
	3 '	60	170	180	130	200	4,46		170	(fo		
				; _i			1/3					
	0,0			1,04		2,0		3,0				
	0,1			1,1		2,1		3, 1				
19	0, 2	2		1,2		2,2		3,2				
	0,3	J		1,3		2,3		3,				7
	0,0	J		1,4		2,4		3,				
		1		-1		2,		,				
**		E			1			2		-1	-• -	3
•	l			)			<b>4</b> 2			. )		
ď	- <b>&gt;</b>	47	<b>-12,</b> 7	5	10,2,	· / - /	```	40,3	1 <b>73</b> 11			



## 1195 uedo co de

	ind n= arrollength; 11 col count
olam	
0(1)	lov Cint i=0; i < n; i++) {
	for (in jeo; jem; jit)
	System.out. point (ass [i][j7+"")
0	System. out-pointle ();
	الحاد 





```
Run Code Untitled
                                                                                                              Output: Finished
                                                                                   △ Save Java ▼
                                                                                                        ٥
                                                                                                                                                                               Clear Console
                                                                                                               Finished in 179 ms
                                                                                                               10 20 30 40
50 60 70 80
90 100 120 130
3
4
                                                                                                             3 4
10 20 30 40
50 60 70 80
90 100 120 130
```



Q) Point modern	<b>6</b>	wise							
L P	المراور	t the	e gi	ven	malin	i][m]	Colwi	se.	
		•	1	2	3	ч			
a-58[4][5]:	0	10	20	30	40	50	ю	60	110 160
	4	60	70	80	90	100	20	70	120 170
	2	110	120	130	<b>J</b> 40	150	30	80	130 180
	3	160	170	180	130	200		,	
		, , , , , , , , , , , , , , , , , , ,					•	_	
00	0		6	2		0	3	0	4
T 0,	1	1		1 2		1	3	1	4
20	2	1		2 2	•	2	3	2	4
301	3	1		3 2		3	3	3	4
				<u> </u>					
				1		2	•		<u> </u>
40,	1,2	,23	lo,	≠ ,1,2,3	<b>.</b>	Z 1 (0,1,	2,3}		
• •	- '	-		• •		- ,			

Psuedo		Static void	Column wise	(int aro En)
		los Cint j	int iso; is	j++)4
7.C: 0(nx		los (	Custom out b	n; i++) 4 nint (aw [i][j] + " ");
S-C; 0(1)	9		391411	
		J		
		Sy 2	sten.oud.print	thu;
	3	Break	HU 10:25 Pr	

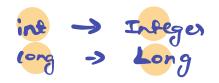


<b>a</b> )	Point	matrin	in	WAVE	form
					ν

L /	4 Point the given					mat[n][m] in wave John.		
		P	1	2	3	ч	,	
aze[4][5]?	0	10	20	30	40	So	L-R - 10 20 30 40 50	
	1	60	70	80	go	100	R-L -> 100 90 80 70 60	
	2	110	120	130	<b>J</b> 40	150	L-R - 110 120 130 140 150	
	3	160	170	180	190	200	R-L-> 200 190 180 170 18	

Psuedo Code	or Cint i:o; icn; i++) {
	j (; 2.2:=0) {   for (int j=0; j=m; j++) {
	for (int j=0; j <m; j++)<="" td=""></m;>
	System.out. point Coop [i] [j7+"")
	3
	else
	100 (int j=m1) j>=0; j-) {
	System.out. point Caro [i][j'7+'
	3

System. out · pointln();





Assaylist so dynamic assay	
byou don't need	Bo Provide the Size of
this array	
Syntan	
- Arraylist < Integers at	= New Moray List <>0;
0 1 2	
10 20 30	
	add an element of the en
al-size(); to	al.add (10); , T.c.o
no- of elevants in Arroylist	ac. ad 8 (20);
	al.add (30);
<del>14</del>	
11 get an element	11 semove an inden
11 get an element 4 object (idn);	al. remove (ion);
T.C: 0(1)	
semove from mid types	0 1 2 3 Y
semove from mid types	200000
remove from last idn	has semove (2)
remove from lost idn	hal. semove (2)
remove from last idn	hal. semove (2)
remove from last idn 4 0(1)  11 change the index val 6 ol. Set (idn, valu	

b Arroylist in bockground is just arrow being smouthy used.

in n= 10.

al. See (idr, val);

Leve	L Coll	
sob.	Aorogli J	ρ.
Alg	OP	rep