

Today's agenda
Today's agenda 4 Intro to 20 Arrays
These to 10 Mostage
b Point matoin rowwise
6 Point motion Colwise
6 Point matois in wave form
u
MALOODEOD
MANDERED



// Into to 2d orlay

Ly JEE mains ->	<i>Ph</i> ysics	Chemistry	Math
	0	1	2
0th Student	80	85	65
1st Student	80	85	65
2nd Student.	80	85	65
/			
<u> </u>			

by Encel Sheed -> 2d ornay use

11 Syntax

int[][] arm = new int [][4];

			الم	umh		
	0.20	0	1	2	2	
	0	D	Ð	0	0	
	1	0	D	0	0	
20h3	2	0	0	0	0	à aह्य दि][2]
	3	0	0	0	0	
	4	0	0	0	0	

4 54 4: 20 elements



a) Point matoin souwise

4 Point the given mat[N](m) sowwise.

					_	-						
En: aros [1][5]=0	10	20	30	40	50		10	20	30	40 3	C 0
	1	60	70	80	J 0	100	- >	60	70	80	301	O O
	2	110	120	130	140	So					140	
	3	160	170	180	190	200					130	
	•				•	•		160	,,,,	100	الحرا	
	J			Z	1							_
	0	0		1	D	2	0	3 0				
	0	1		L	1	2	. 1	2 _				
	V	2		1			2	ح ح	2			_
	C	3		1	3		23		33			_
	28 6	4			. 4		24		3 4			



	D		m-	L
0				
	,			
	,			
	1			
	,			
ni				nxm

						2	LA	
	ass [4][s]:	s o 🗍	0	20	30	40	50	
	7,000		0	0	80	30	100	
106 (inti:0; icn; i++)			10	120	130	140	Go	
		3 10	0	170	180		200	
			7		i			475
System.out-point (aroligg+119);						$\Delta \Box$		
2	$1 \cup \epsilon$	כ						
Systemout-point(nC);				3				
					المرح	alse		
10 20 20 40 50	1	•		<i>0</i> L	•			
10 20 30 40 50	•	,		2				
60 70 80 30 100				3		1.0		
110 120 130 140 150				5	->60	we.		
160 170 180 190 200		2		1				
				3	fe			
				3	76	بدلي د		
				0				
	•	3		غ				
				Y.				
				3	7/6	alse	(eni	(+)

4 s false (evit)



a) Point matoin Colwise

4 Point the given materialing con wise.

		0			3	4	_				
En:	ass [4][s]=0	10	20	30	40	50		10	60	110	160
	1	60	70	80	J 0	100				120	
	,	110	120	130	140	Co				120	
	3	160	170	180	190	200	4,50				19.
							475	76	98	140	19.
								<u></u>	100	15-	2



La (int is as is me iss) (Caca	0		2	3	4	1
for (ind j=0; j < m; j++) (000[4][5]=0		20	30			
for (ind iso; ixn; i++) {	1	60	70	80	Jo	100	
System.out. print (art [i] [i] " ");	110	120	130	140	CO	
3	3	160	170	180	190	200	
System. out. pointln ()	4		•				UKE
3			<u> </u>				
	0		des consi				
10 60 110 110			3				
10_60_110_160			sem	4			
20- 70- 120- 170			0				
	1		1				
			l - er	24			
				40			
	2						
O.C. V. I	ill 9:20 Pm						
Back	J. 20 TM						



a) Point matoin in wave Joan 4 Point the given mat[N][m] in wave form. En: 000 [4][5]=0 L-R -> 10 20 30 40 50 80 Jo 100 R-L -> 100 30 80 70 60 140 120 130 L-R > 110 120 130 140 150 170 190 → 200 190 180 170 140 0, 2, ... (even no.) 1, 3, (odd no.) 3 else { for (ind j=m-1; j>=0; j--){ 13



		J	2		Ч	
ass [4][s]=0	10	20	3		50	
	60	70	80	J 0	100	
for Cint j=0; j <m;j+)< th=""><th>110</th><th>120</th><th>130</th><th>140</th><th>CO</th><th></th></m;j+)<>	110	120	130	140	CO	
Systemous point (are fill] + " ");	160	170	180	190	200	
eller						nr _b
for (ind j:m-1; j>=0; j) (System.oud.point (are fill j)+" ");			0			
			1			
system.o.d. pointly;	il		Ţ			
	P		3			
10_20_30_40_So_			4			
100- 90- 80-70-60-			5-5	erit		
$1 \rightarrow e$	120		الم الم			
2			<u>3</u>			
			0			
AIGO						
2						
3						



11Psuedo code

	Heal
Void main () 4	الالا المحالية المحالية المحالية
11 infus 2d array -> aso[n][m] : { 30 70 }	3- 40 5-60
S.o.p (000/03/01), -> 10	
(un (avo);	L COMPRE
3 -> S-o.p (arr fo][o]);	
O 1 lie Chatie will I a line CICI and C	
Public Static void fun (ind C)[) arrolf main	OSS & AK
3	Stock
> java is Pass by value only. you to the Junction.	u Pass the stock value
Jun Chon.	