

Ane these Arrays ??

1 11 7 56 29 99

b [c] d | c | f | g | h

c | d | 7 | f | 29 | h

Length of an array 7 It can be specified by any intèger constant enpression. Correct. Incorrect [int a[5]; [int a [.5+5]; int a [5 *3]; [int a [-5]; int a, int b[a=22/3

> specify length of array using macro

define N LO int a[N];

Initialization of Arrays

Method 1

int a[5] = {1,2,5,30,32}.

Method 2

int a[] = [1,2,5,30,32];

Method 3

int a [5];

a[o]=1; a[3]=30;

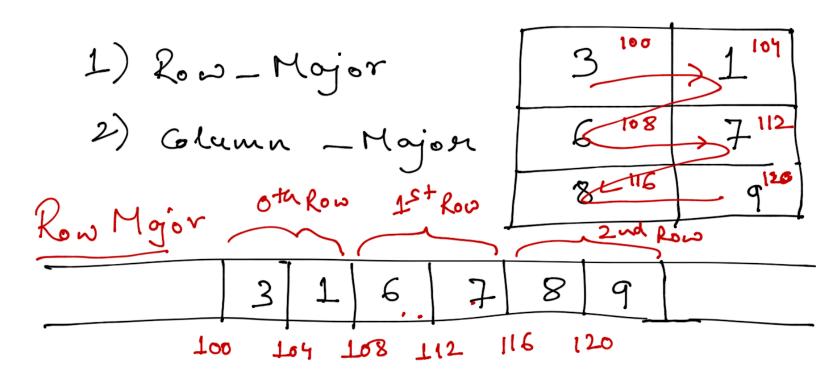
a[1] = 2; a[4] = 32; a[2] = 5;

Method 4:

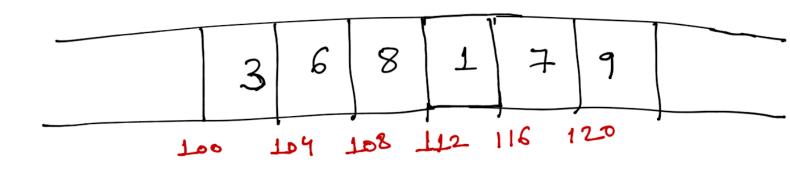
int a[5]; for (i=0; i<5; î++) "Enter the value";

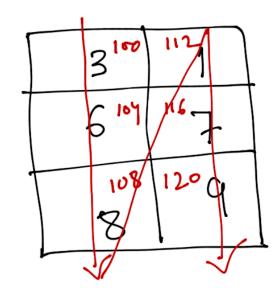
Array Columns int a[3] [2]; Rous

7 Array of Arrays int $a[3][2] = \{3,1,6,7,8,9\}$ int a[3][2] = { {3,1}, {6,7}, {8,9}} int a [][2]= { a[3][]= X. int a [3][2], i,j; Cout LC "Enter the elements"; i < 3; i++) for (j=0;j<2;j++)



Column Major





Accessing Elements in an Array for 1-D Array 4 10 56 16 = Base + ixSize
Address. of data type = 100 + 2×4 i=2 = 100 + 8for 20 Array Base = Base + (ixn)+j) xsize

Addressio

Addressio where, mxn represents size of the avray

		م [و] [ا		
Enample:	[العالماء	3	1	
	م [يا [و]	6	7	م[ب][ب]
Row Major	a[2][9]	8	9	a[2][1]
				3X2_

a[4][4] ?? Address of

Base Address 11 = Basc Addoo + ((ixn)+j) $= 100 + [(1\times2)+1]\times4$ $=\frac{100}{112}+\frac{1}{(3)}\times 4$

[0][0][1] Example 1st plane 2 nd plane A[3][2][2]Row Major

$$A[o][o][h] = Base Address_{[o][o][o]}$$

$$Base Address_{[o][o][o]} = \{(n \times i) + j + (m \times n \times k)\} + \{(n \times i) + (m \times n \times k)\} + \{(n \times i) + (m \times i) + (m \times i) + (m \times i)\} + \{(n \times i) + (m \times i) + (m \times i) + (m \times i)\} + \{(n \times i) + (m \times i) + (m \times$$