int [] arr → 0th index address

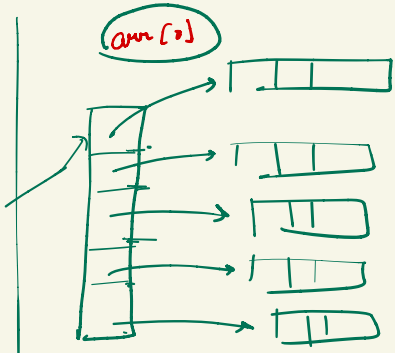
arr = new int [5]

2d array → array of arrays

array of integers

array of String

arr[0]



int [][] arr = new int [5] [3]

number of rows

number of columns

arr[2][0], arr[2][1], arr[2][2]

arr[1]

arr[2][0]

arr[2]

arr[i][j]

	0	1	2	3
0	1	2	3	4
1	5	6	7	8
2	9	10	11	12
3	13	14	15	16

last row → reverse order

16 15 14 13

12 11 10 9

8 7 6 5

4 3 2 1

```java
public static void main(String[] args) {
    Scanner scn=new Scanner(System.in);

    System.out.println(x: "Enter the number of rows");
    int n=scn.nextInt();

    System.out.println(x: "Enter the number of columns");
    int m=scn.nextInt();

    int[][] arr=new int[n][m];

    System.out.println("Enter "+n*m+" numbers for your matrix");

    for(int i=0; i<n; i++){
        for(int j=0; j<m; j++){
            arr[i][j]=scn.nextInt();
        }
    }

    System.out.println(x: "Your matrix is this neo");

    for(int i=0; i<n; i++){
        for(int j=0; j<m; j++){
            System.out.print(arr[i][j]+" ");
        }

        System.out.println();
    }
}
```

arr[2][3] → 12

Ques Create 2d array, take input, find sum of whole 2d array.

```java
int sum=0;

for(int i=0; i<n; i++){
    for(int j=0; j<m; j++){
        int ele=arr[i][j];

        sum=sum+ele;
    }
}

System.out.println("The sum of whole array is "+sum);
```