An array is a data structure that stores a collection of elements of the same type stored in a contiguous memory location.

Syntax

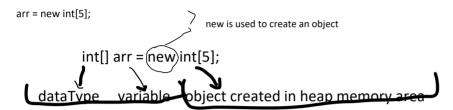
dataType[] variable_name = new dataType[size]

int[] srr = new int[5];

Array elements are initialized to 0 by default.

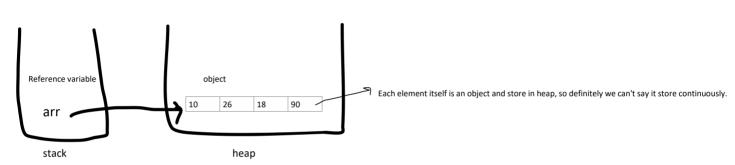
int[] srrsy2 = {23,14,25,46,89};

int[] arr;



Compile time memory allocation

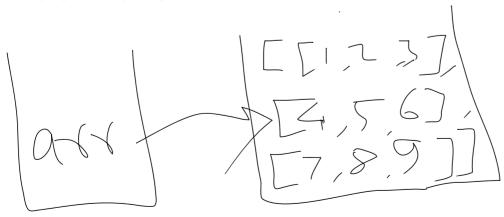
Dynamic memory allocation / runtime

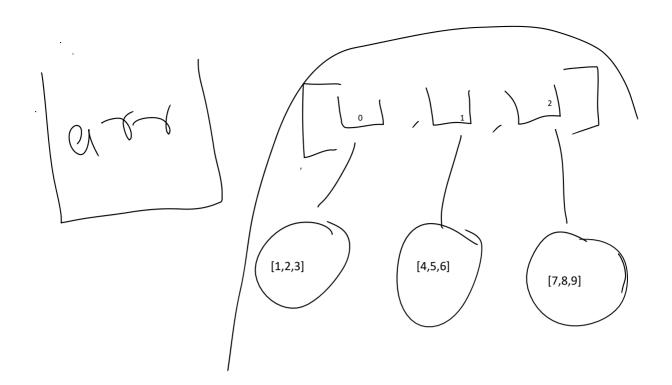


- 1. Array objects are stored in the heap memory area.
- 2. Heap objects are not continuous as per Java Language Specification. It may or may not be.

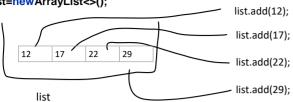
2D Array

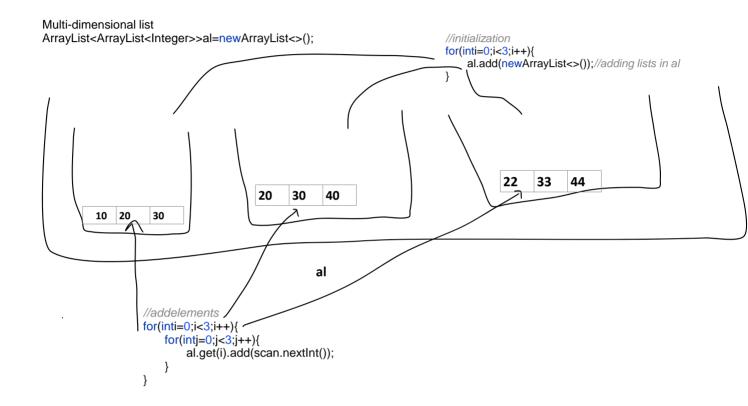
2D arrays in java are array of array





ArrayList<Integer> Iist=newArrayList<>();





Linear Search

Search the element from start to end/till the element is found.

Search : 40

10 20 30 40 50 60 70 80

Start from 0th index

