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THURSDAY

07 Wk / 042-323

compile Time

used to create an obj
dynamically

8 am
9 am
10 am

```
int[] arr = new int[5];
```

data Type ref variable

creating the object in
heap memory

Runtime

(Dynamic memory allocation)

at runtime memory is allocated

2 pm

Internal working :-

3 pm

4 pm

5 pm

Stack

evening

Heap

7 pm

array in c, c++ is continuous memory allocation

In java it doesn't happen it depends on jvm
as there is no pointer

① array objects are stored in heap

② In Java lang specification \rightarrow Heap is not continuous

③ Heap \rightarrow is runtime area from all object and class allocated

Index of array

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0	1	2	3	4	5	6
3	8	19	12	7	28	33

arr \nearrow
 $arr[0] = 3$

$arr[2] = 19$

For Each :

$for (dataType \ x : array) \{ \}$

$for (int \ num : arr) \{ \}$