

DSA through C++

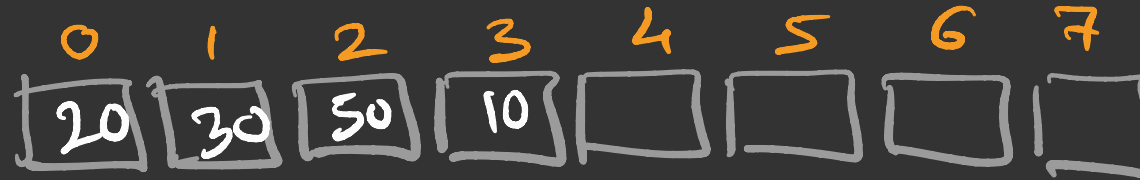
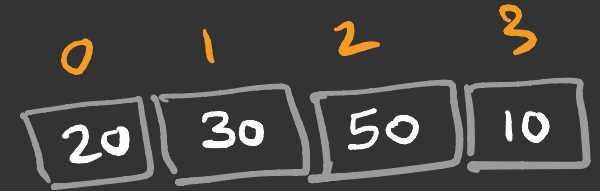
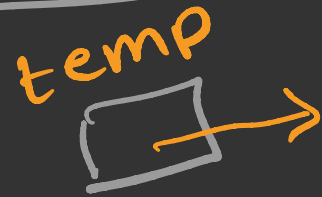
Dynamic Array data structure

Doubt Class



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# double Array ( )



## SMA

```
int a;  
int *temp;  
float b;  
Array obj;
```

---

```
float* P = new float[4];
```



```
delete [] P;
```

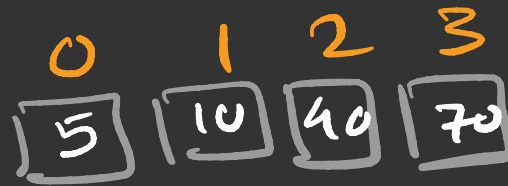
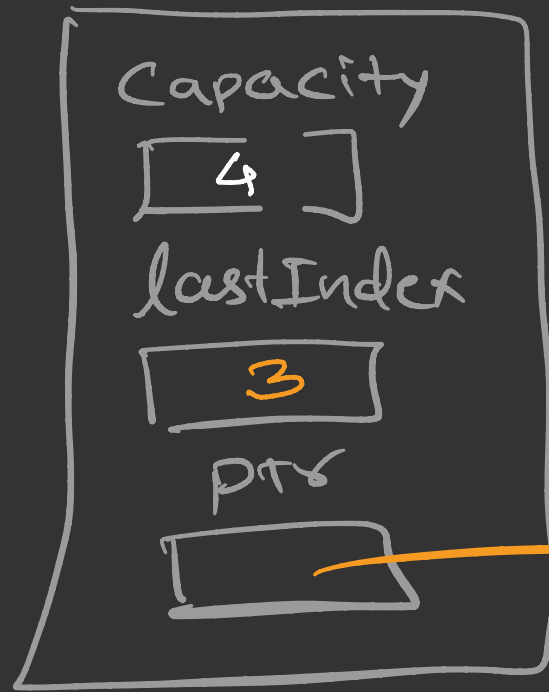
## DMA

```
P1 = new int;  
P2 = new float;  
P3 = new Array;  
P4 = new int[5];
```



```
delete P1;
```

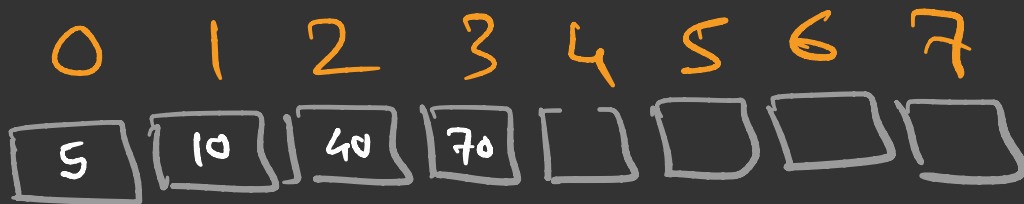
# halfArray()



temp

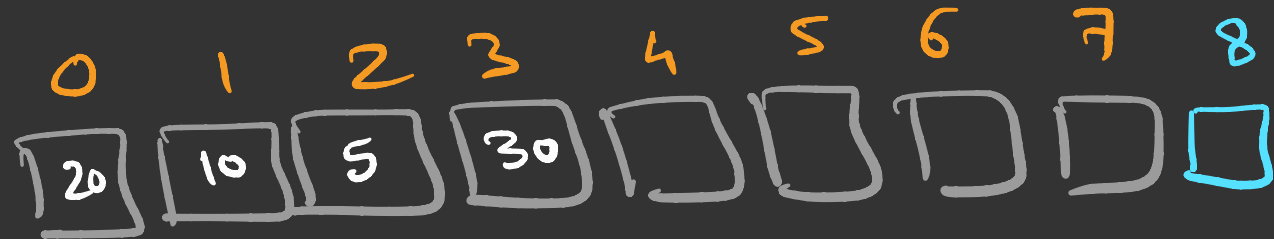
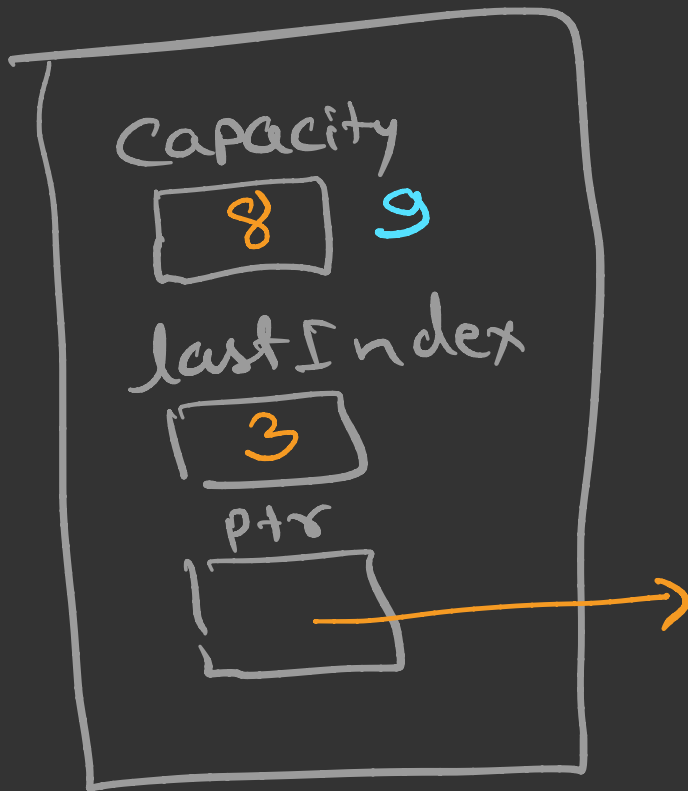


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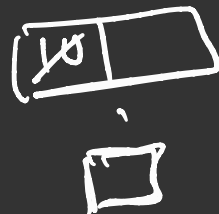
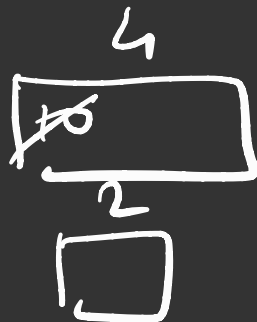
~~5~~ ~~10~~ ~~40~~ ~~70~~ 4

append()      insert()  
del()



$$\text{Capacity} / 2 \geq \text{lastIndex} + 1$$

4 3 + 1



$$2 / 2 \geq 0$$

$$(1 / 2) \geq 0$$

0	1	2	6
10	20	30	