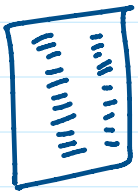
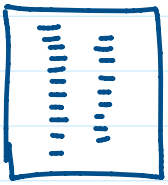
26 February 2023 09:41

~~capacity~~ → Dynamic Stack

↳ Stack → Dynamic Stack





push

Inheritance

```
class Parent {
    // Parent properties
}
```

Base

```
class Child extends Parent {
    // → Parent properties
    // → Child properties
}
```

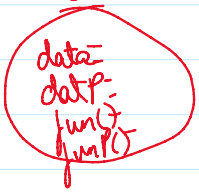
Derived / Inherited / subclass

Compiler → LHS → Written/Code

JVM → RHS → Read/Input

case 1 : P obj = new P();

10K

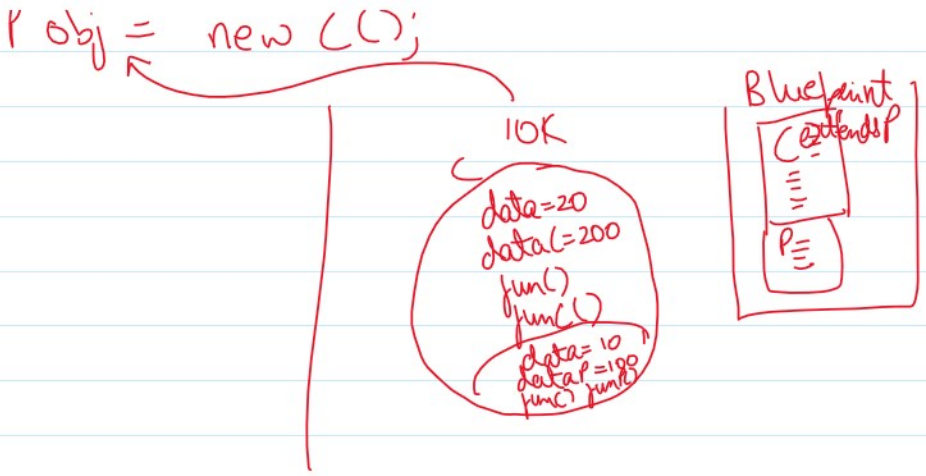


Case 2

10K

P obj = new C();

Blueprint 1

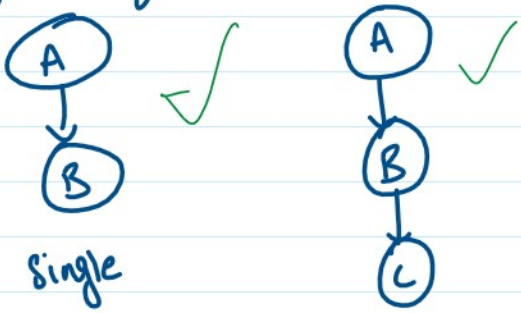


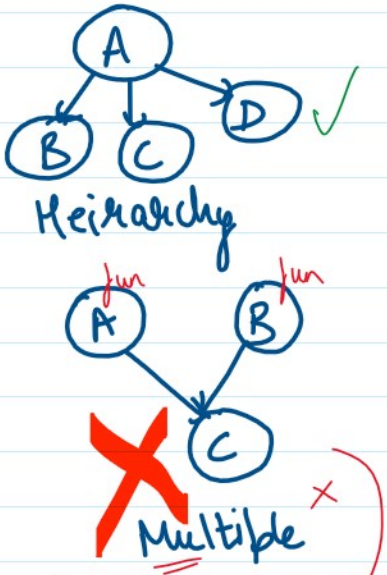
No properties of C are visible
but memory is alloted to C ⇒ type of address

* In case of collision for data members
  ↳ resolved by LHS

* In case of collision for data functions
  ↳ resolved by RHS due to overriding

Types of Inheritance





At a time, a class can extend only single class

interfaces

Design Patterns →

is-A → inheritance

has-A ?? → data members

Vehicle → Car { type, speed }

Human → Student

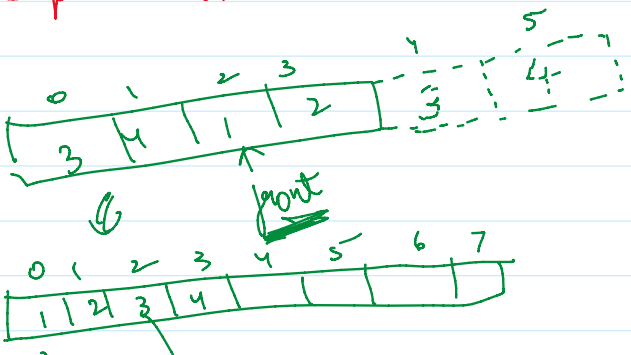
Object (Sabka Baap)
↳ provides some properties which are automatically inherited

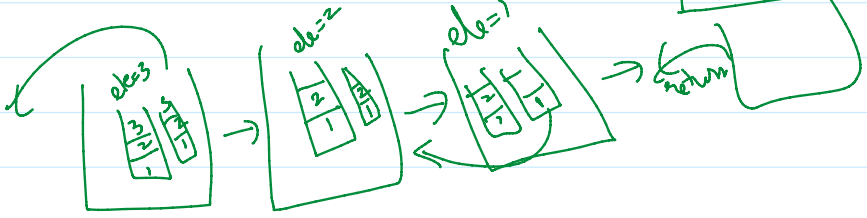
[1, 2, 3, 4]

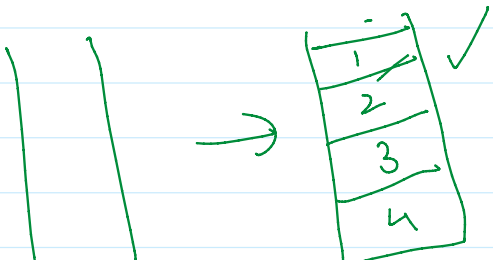
1) hasNext() ⇒ true / false

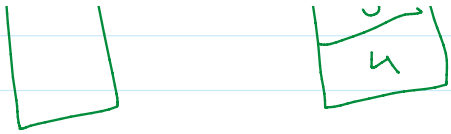
2) next() ⇒ Abhi vali value return & moves ptr to next value

(2, 6)









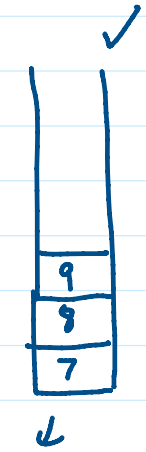
* Next Greater on Right

0	1	2	3	4	5	6	7	8	9
50	30	20	40	10	45	5	60	15	8

↓

0	1	2	3	4	5	6	7	8	9
60	40	40	45	45	60	60	-1	-1	-1

$\left[\frac{60}{0}, \frac{40}{1}, \frac{40}{2}, \frac{45}{3}, \frac{45}{4}, \frac{60}{5}, \frac{60}{6}, \frac{-1}{7}, \frac{-1}{8}, \frac{-1}{9}\right]$



stack: jinka right nahi nikla