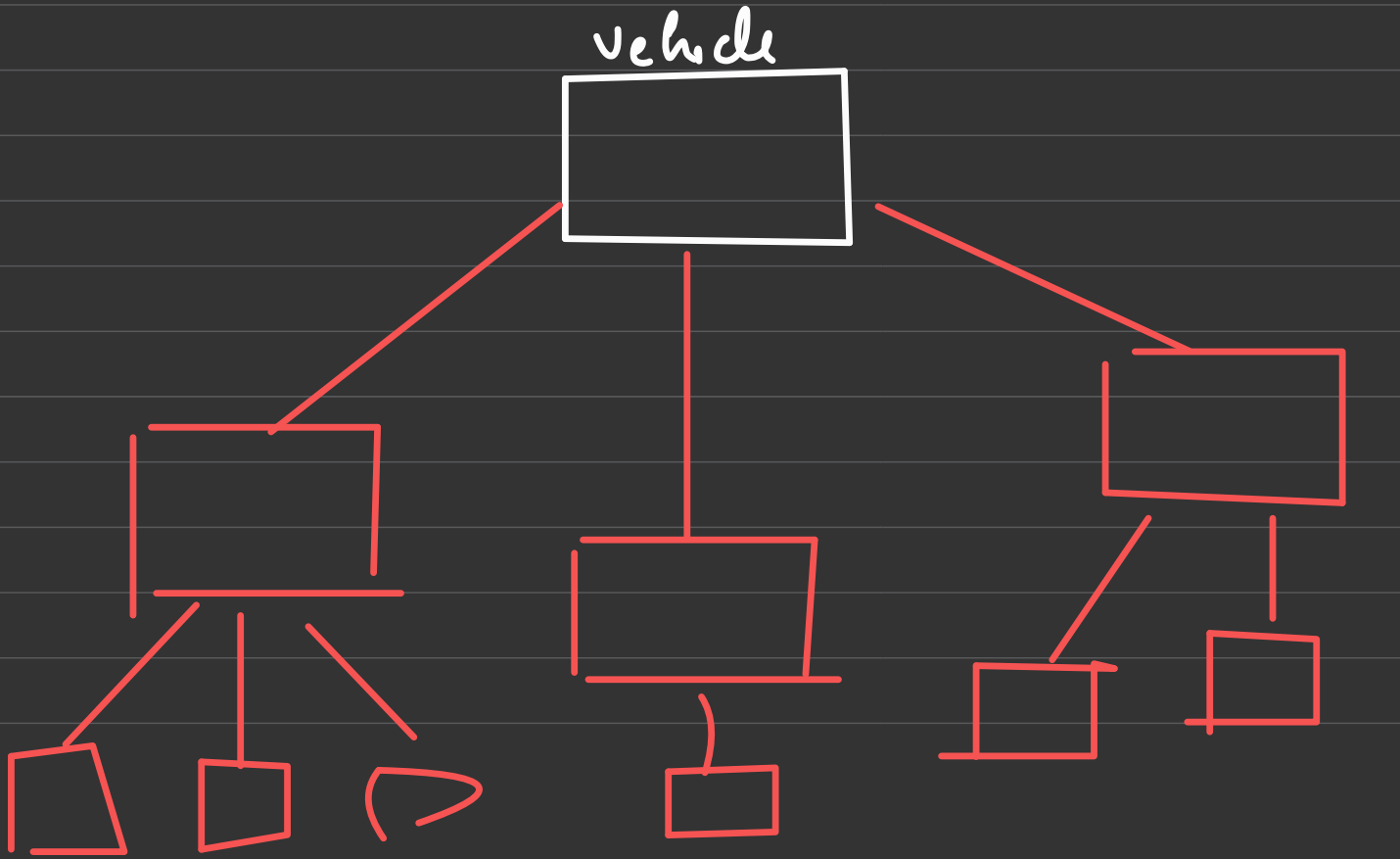
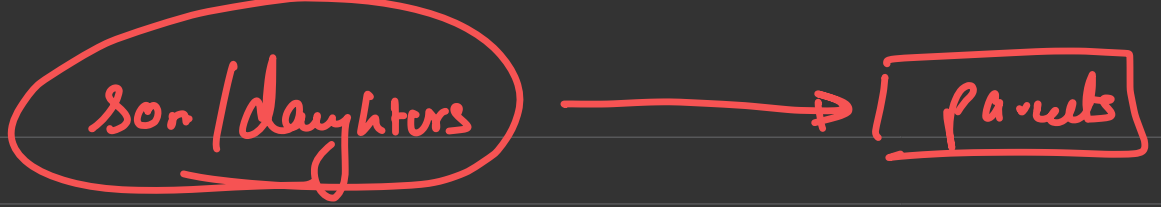
Inheritance-



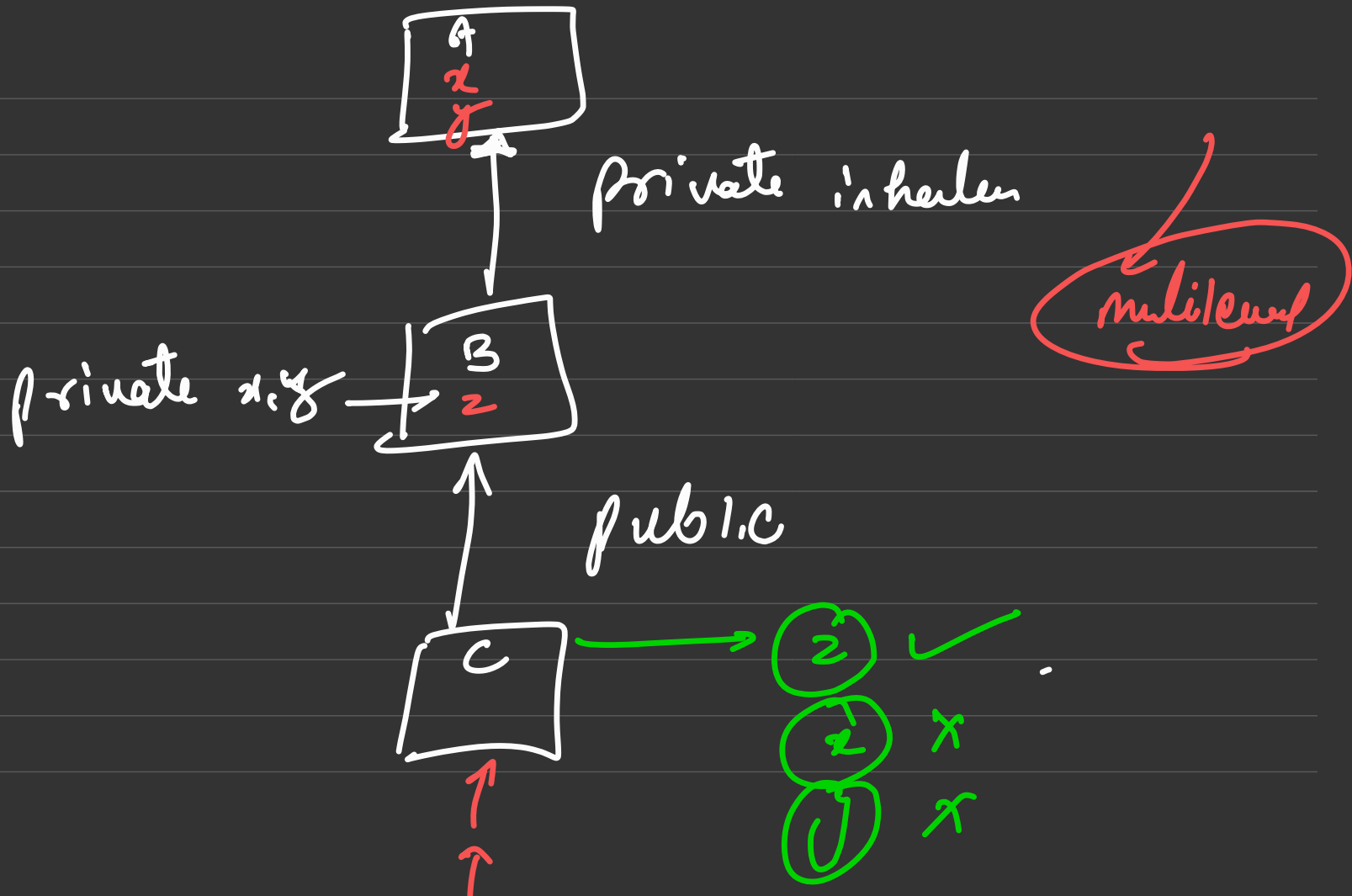

Son / daughters
Parents

(1) Base Class → the one from which others derive

(2) Derived class → the one that actually derives

3 types of inheritance based on usability modifiers:

1. Public
2. Private → default
3. Protected

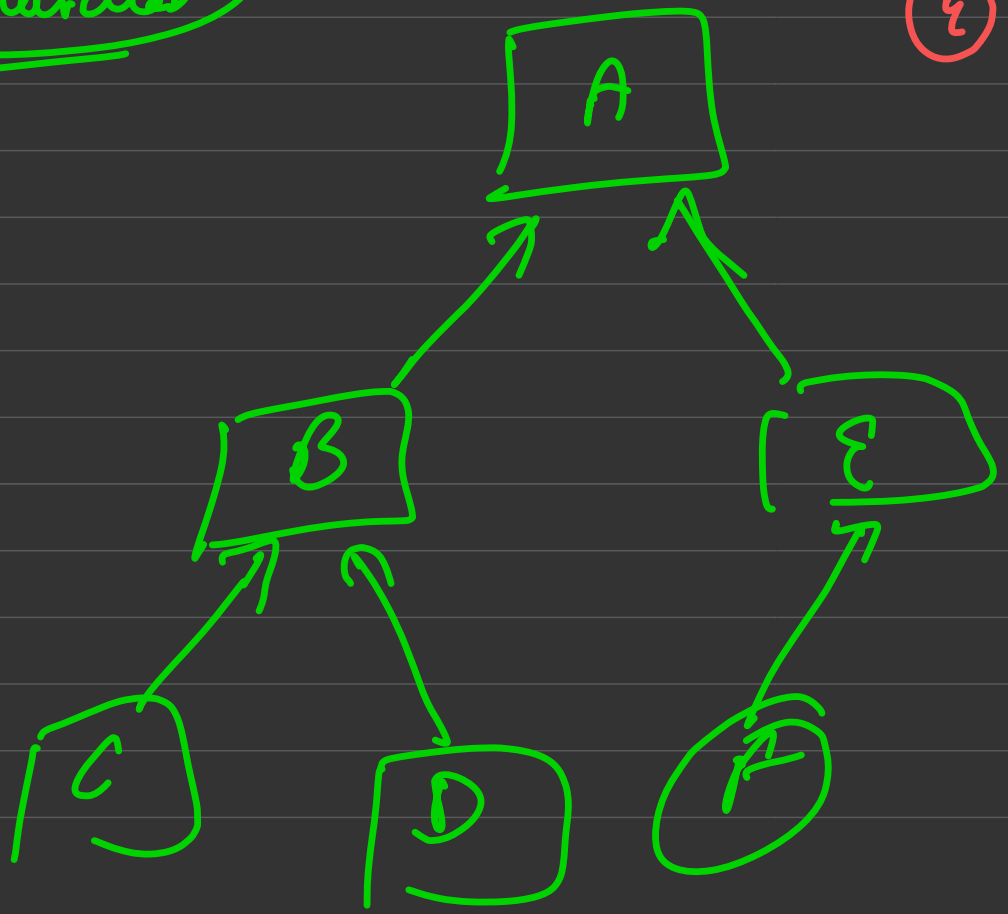

A
x
y
private inheritance
multilevel
B
z
private x,y
public
C
z
x
y

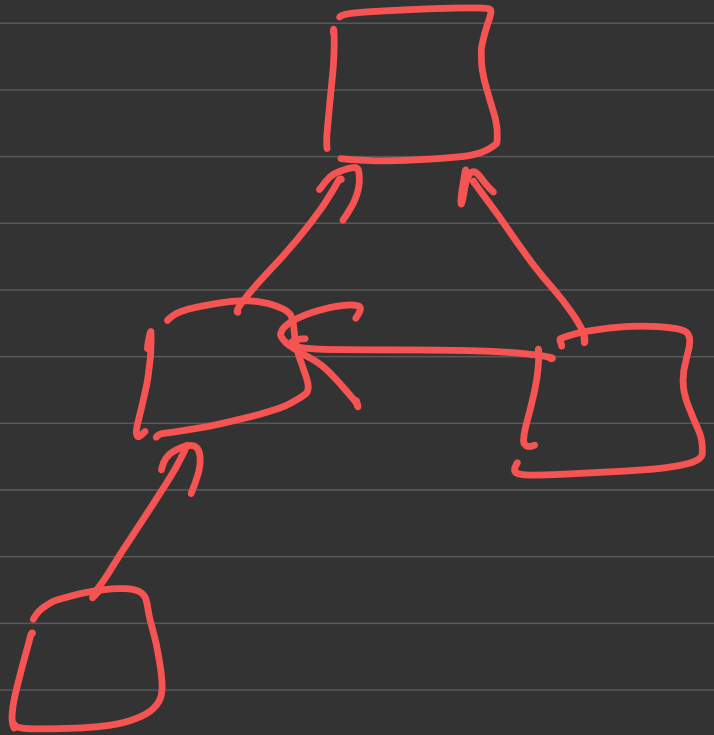
Based On levels

1. multilevel
2. multiple → In Java this is not directly available with classes. But in cpp it is.

3 Hierarchical

4 Hybrid





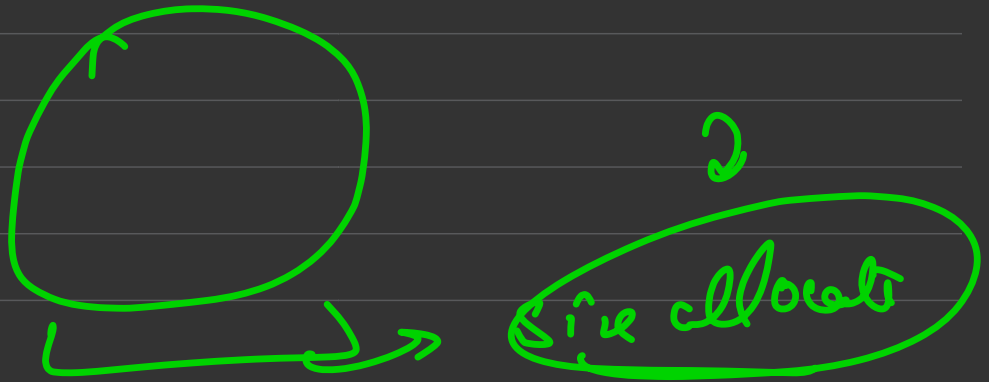
dry → dont repeat yourself.

kiss →

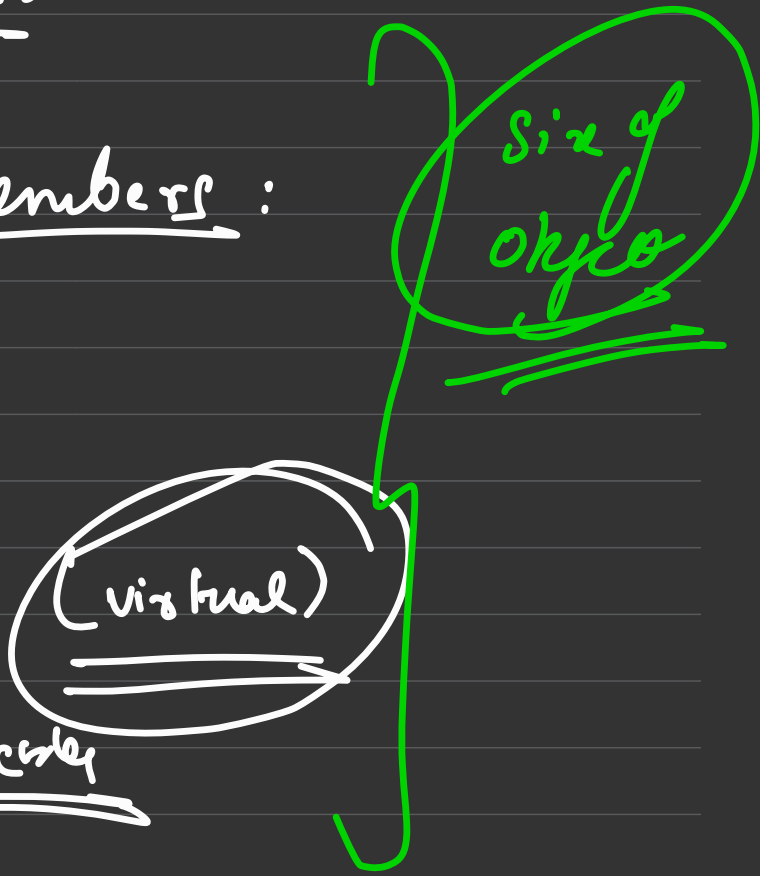
How size of class is defined. ??

↳ compiler → multiple optimizations

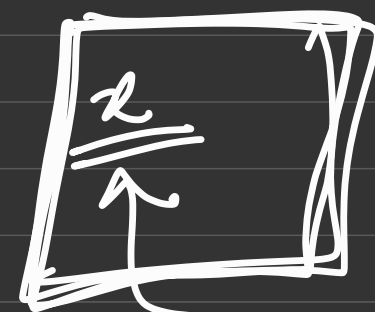
class → instance

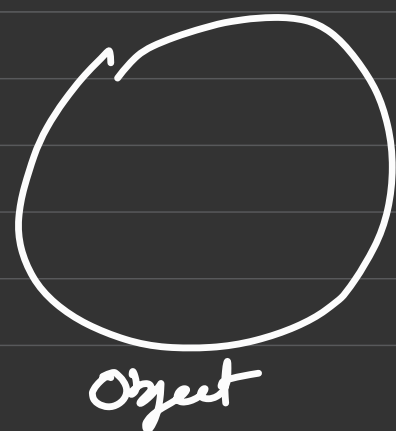


1. Depends on compiler.
2. Order of data members:
3. padding
4. Mode of inheritance
5. Presence of virtual functions
6. Parent class



→ if you have static data members, then generally in most compilers, it doesn't add to the object size:





Class

obj1.x

Obj2.x