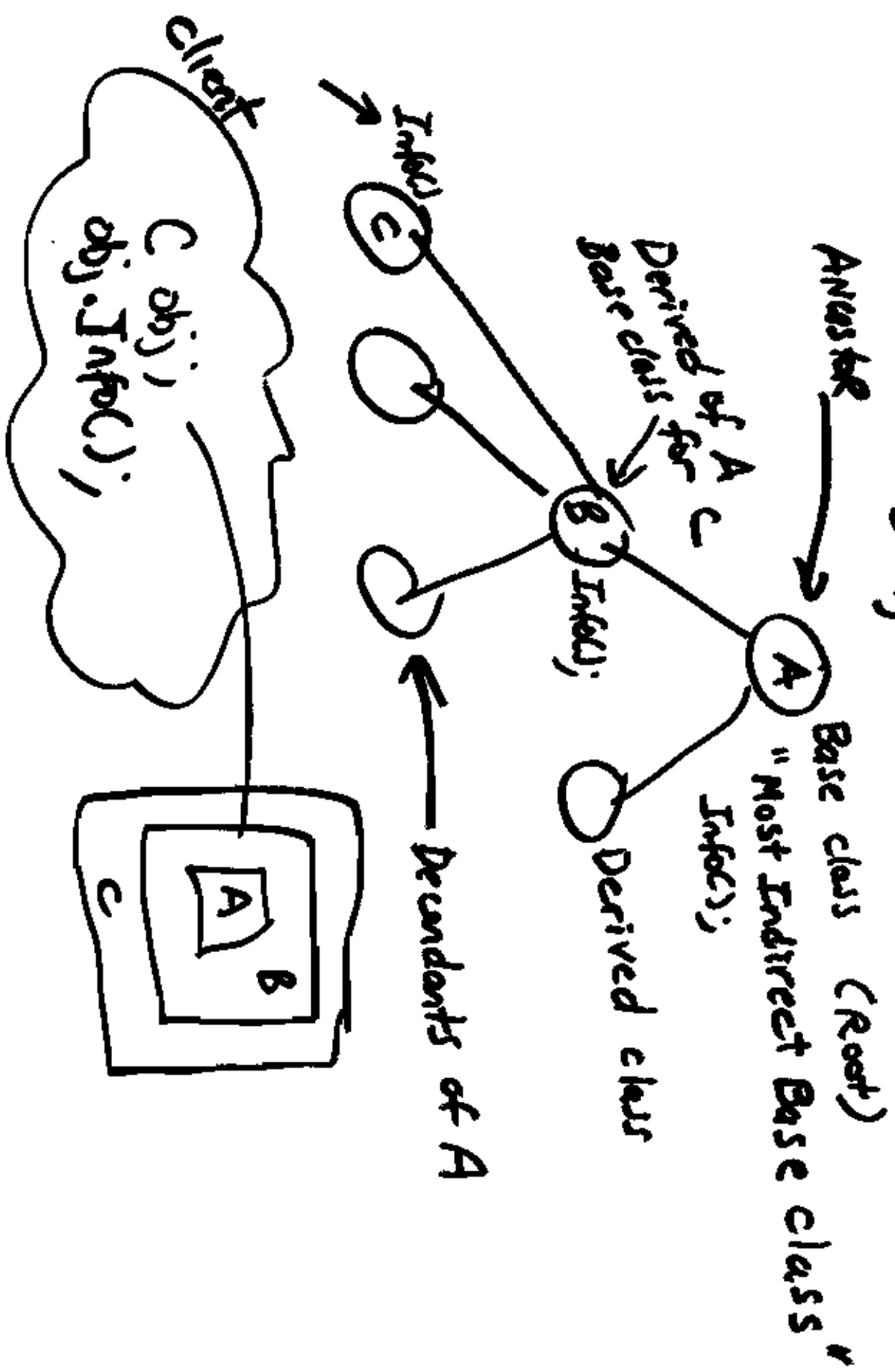
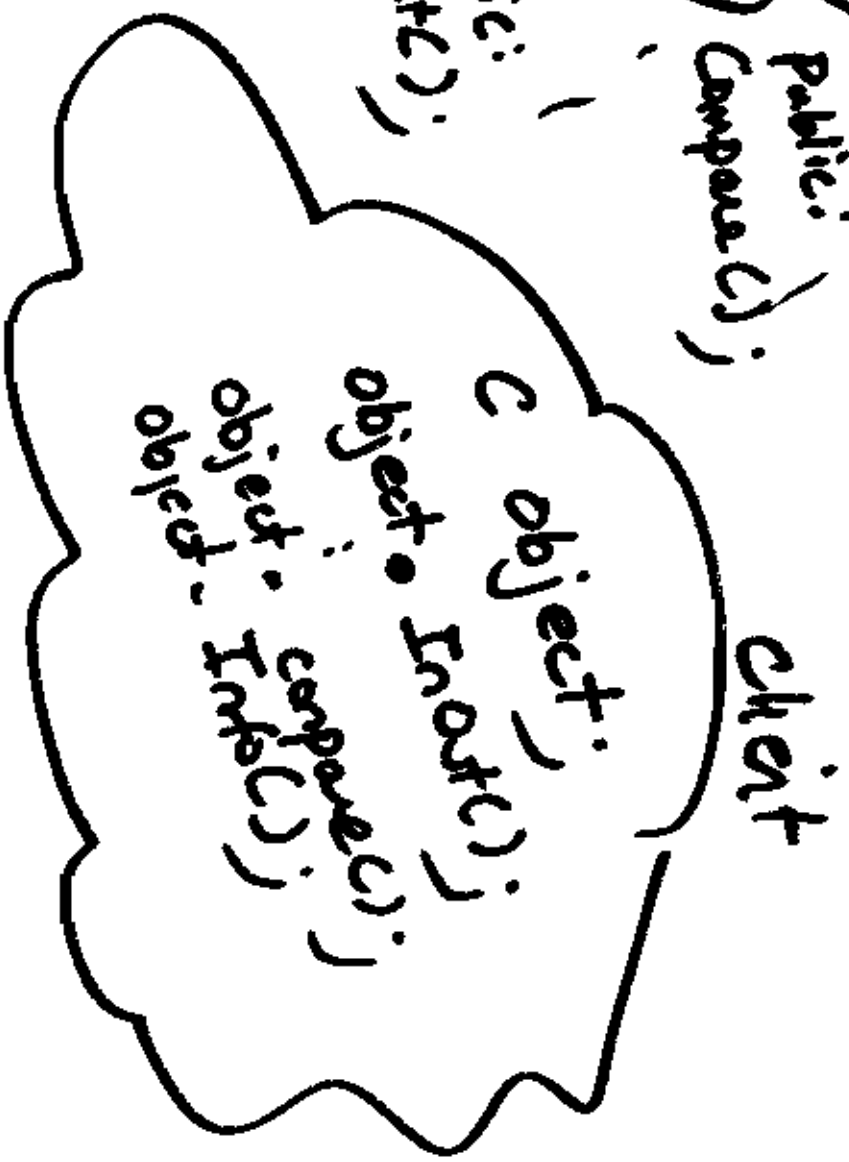
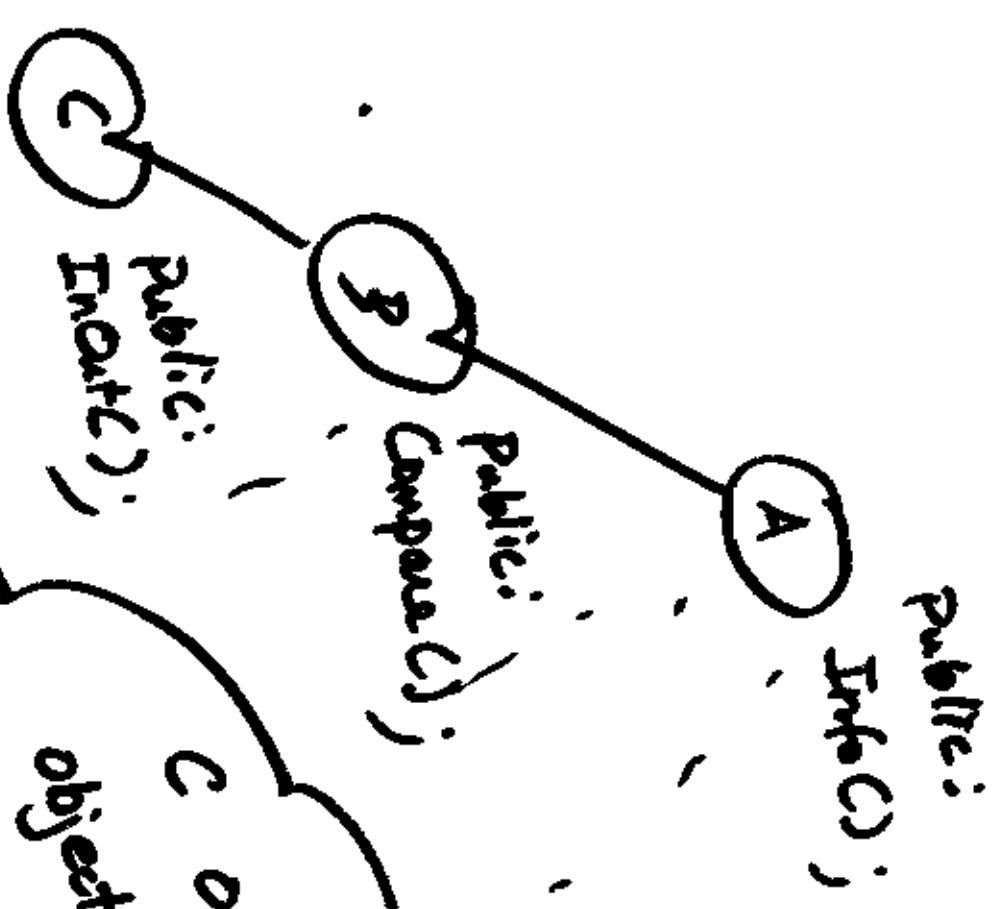
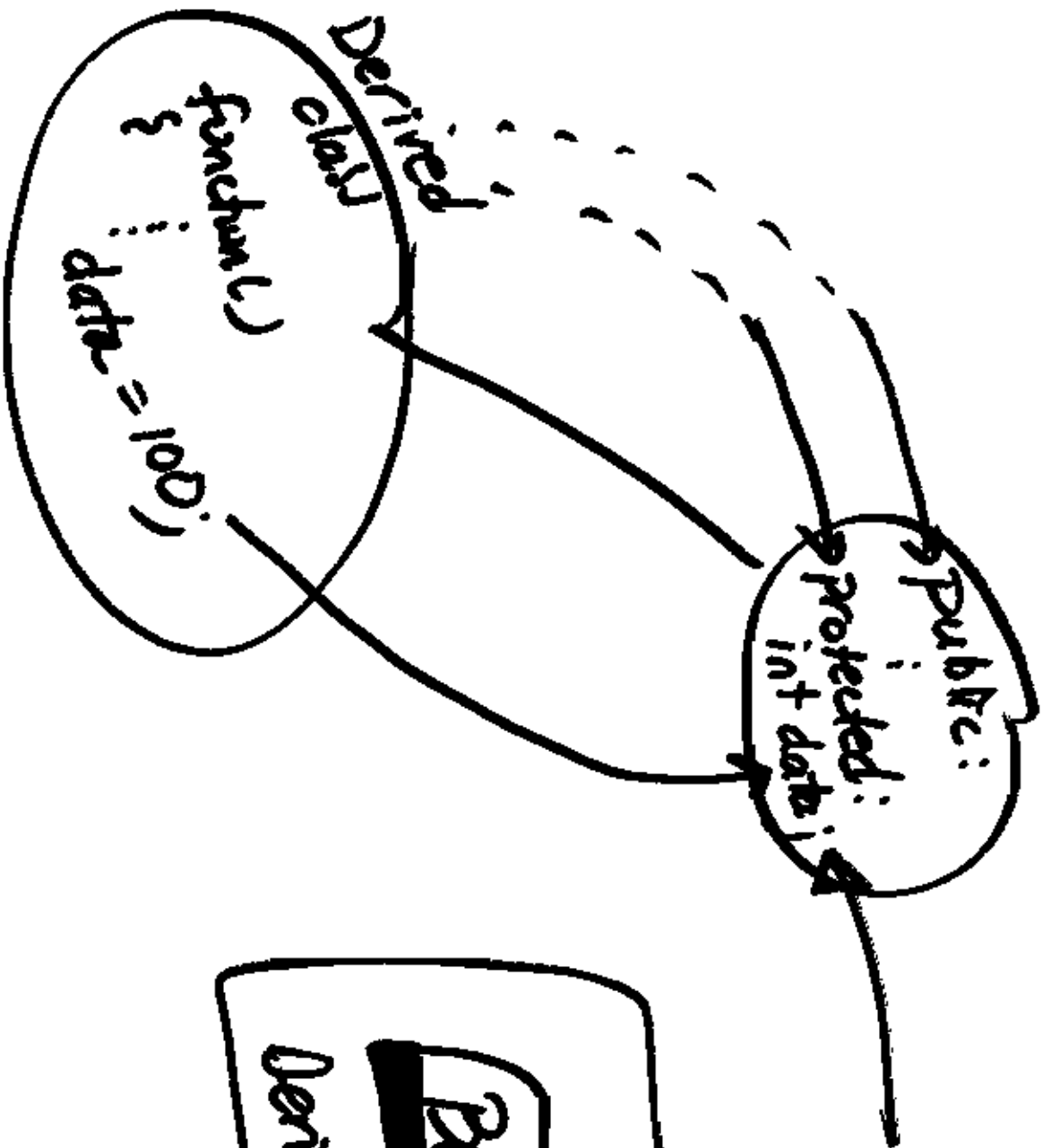


Single Inheritance



```
void C::Info()
{
    B::Info(); // OK
}
A::Info(); // Breaks OOP Rules
```





```
base :: base C
{
  :
}
```

```
derived :: derived (Char [J])
{
  :
  name
```

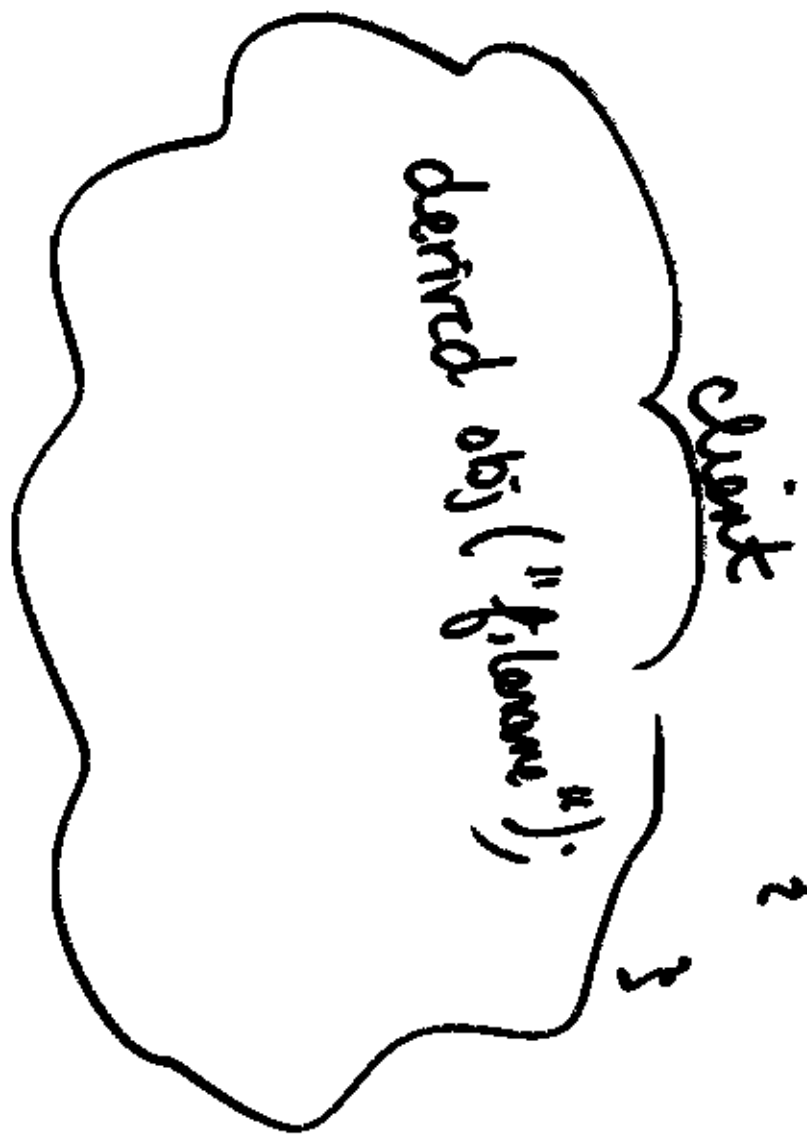
derived obj ("filmmu")

```
}  
base::base C)  
{  
  // called !  
}
```

```
base::base (char fname C3)  
{  
  // NOT USED !  
}
```

```
}  
derived::derived (char name C3)  
{
```

// Still calls !
Default base !
Automatically



```

base :: base ()
{
// NOT called
}

```

```

base :: base (char func())
{
// Used
}

```

just

derived obj ("filename");

derived :: derived (char name C)

- base (~~name~~)
- initialization list

;

}

```

class in derived : public base
{
public:
    derived(); // default
    derived(char E[]);
}

```

protected:

```

const int size;
node * root;

```

```

};

```

INITIALIZATION LIST

```

derived::derived() : size(100), root( $\phi$ )

```

↑
NULL

}

.cpr derived :: derived (char name [J]) ::

$\sum_{i=1}^n \text{root}(\phi_i), \frac{\text{size}(\phi_i)}{\text{base}(\text{name})}$

void f(C)

{

{
int i = ϕ ;
int j = ϕ ;
int k (ϕ);

} initializing

i = 100;

// Execution Time
Assignment

Time
of memory
allocated



dp can't trust
invocation

{
 checking obj;
 ...
 obj = same other object; // assignment
}

Account (const char * name, float amount);

Account object1("name");
Account object2("name", 100.0);
Account object3("name", 100.0);

int i = 100;

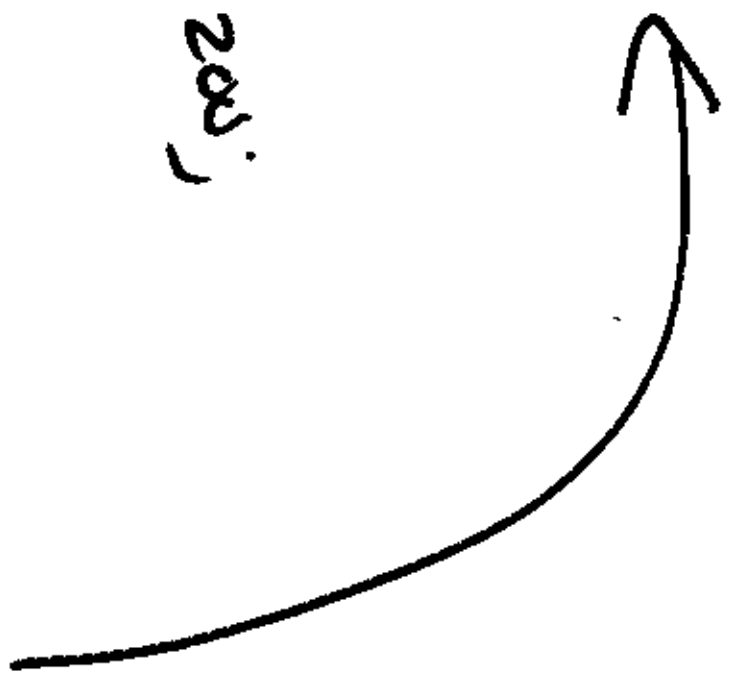
int f(c)

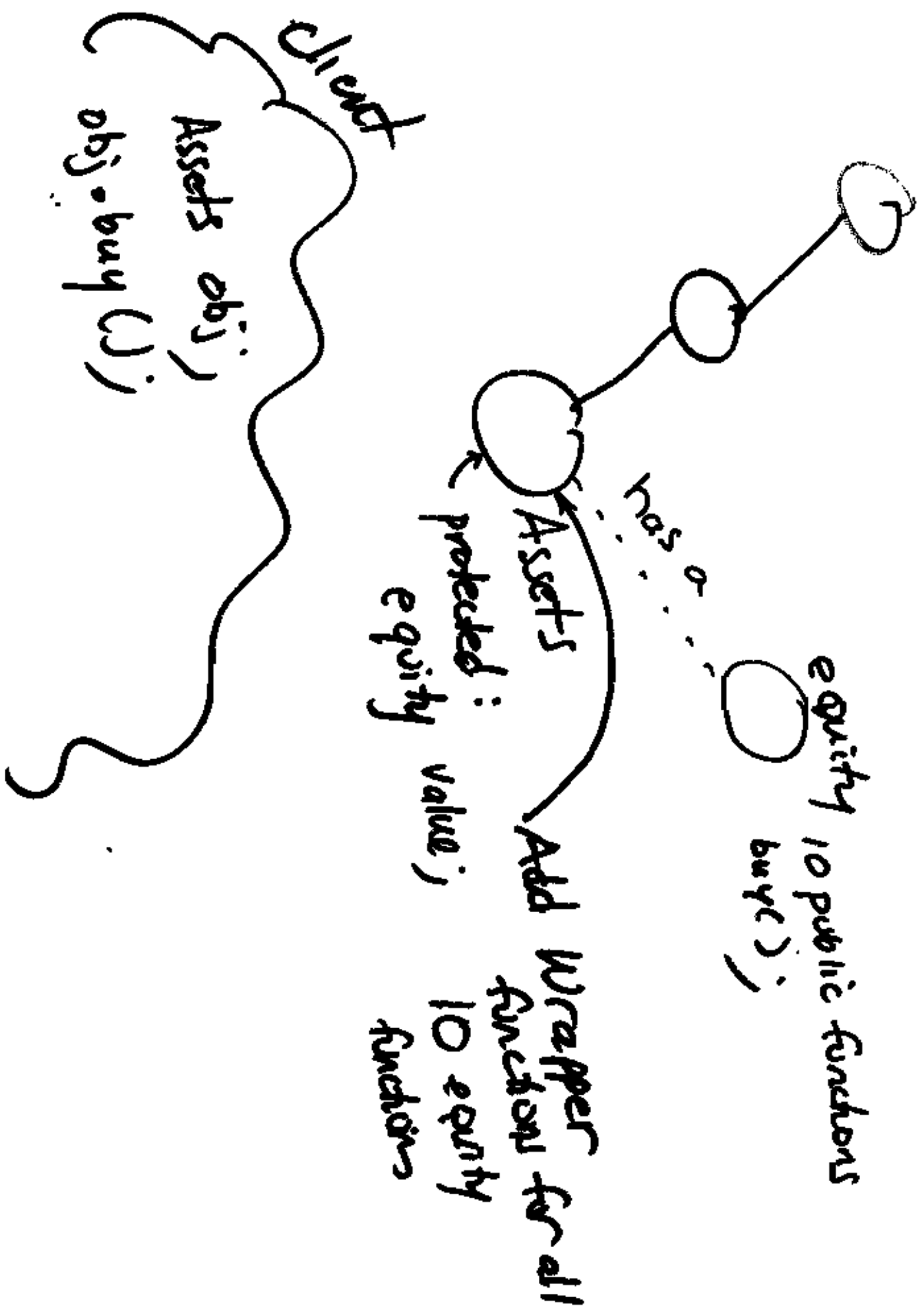
{
 int i = 200;

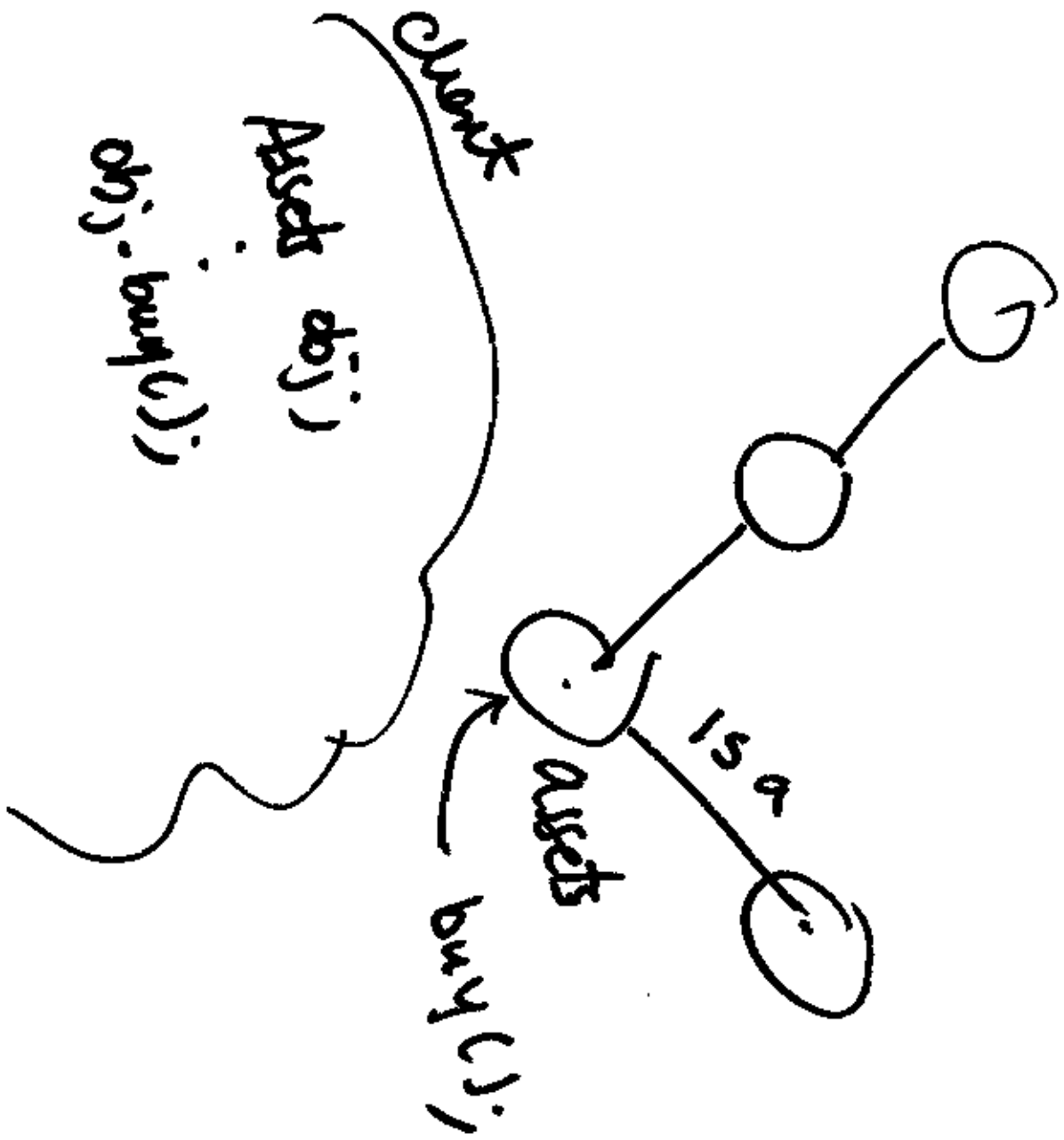
 if ()
 {

 int i = 300;

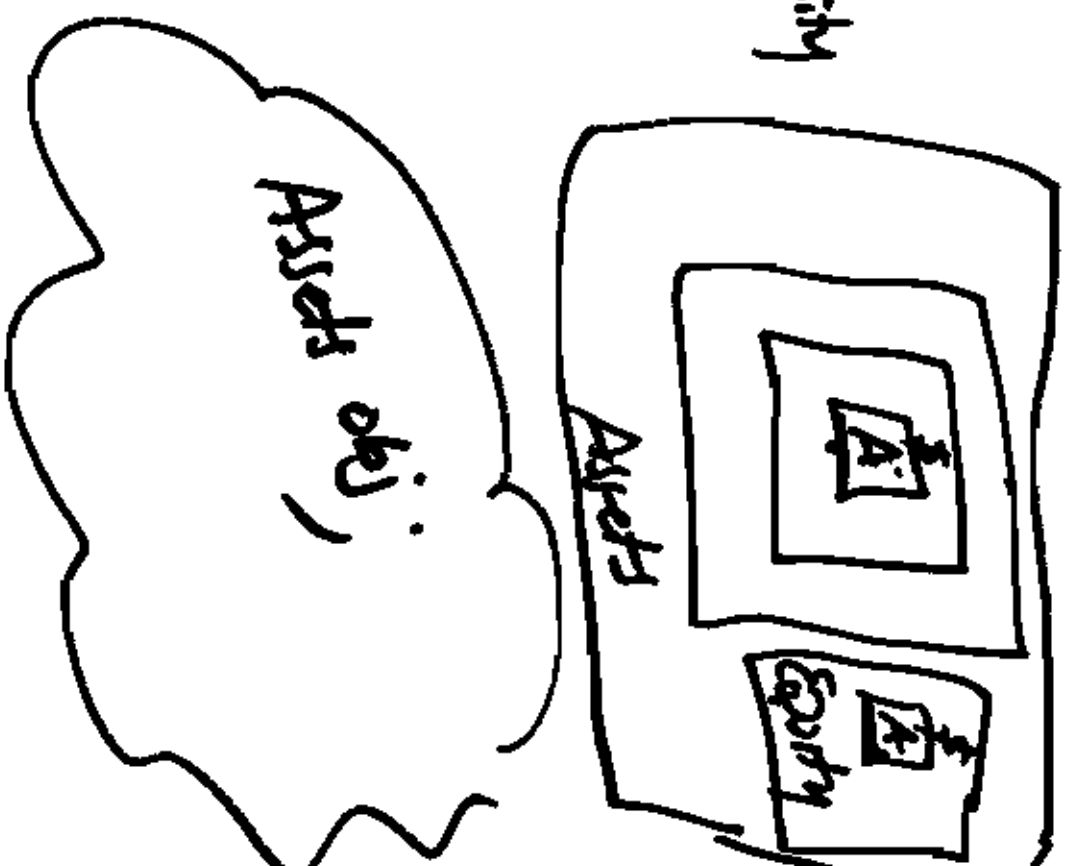
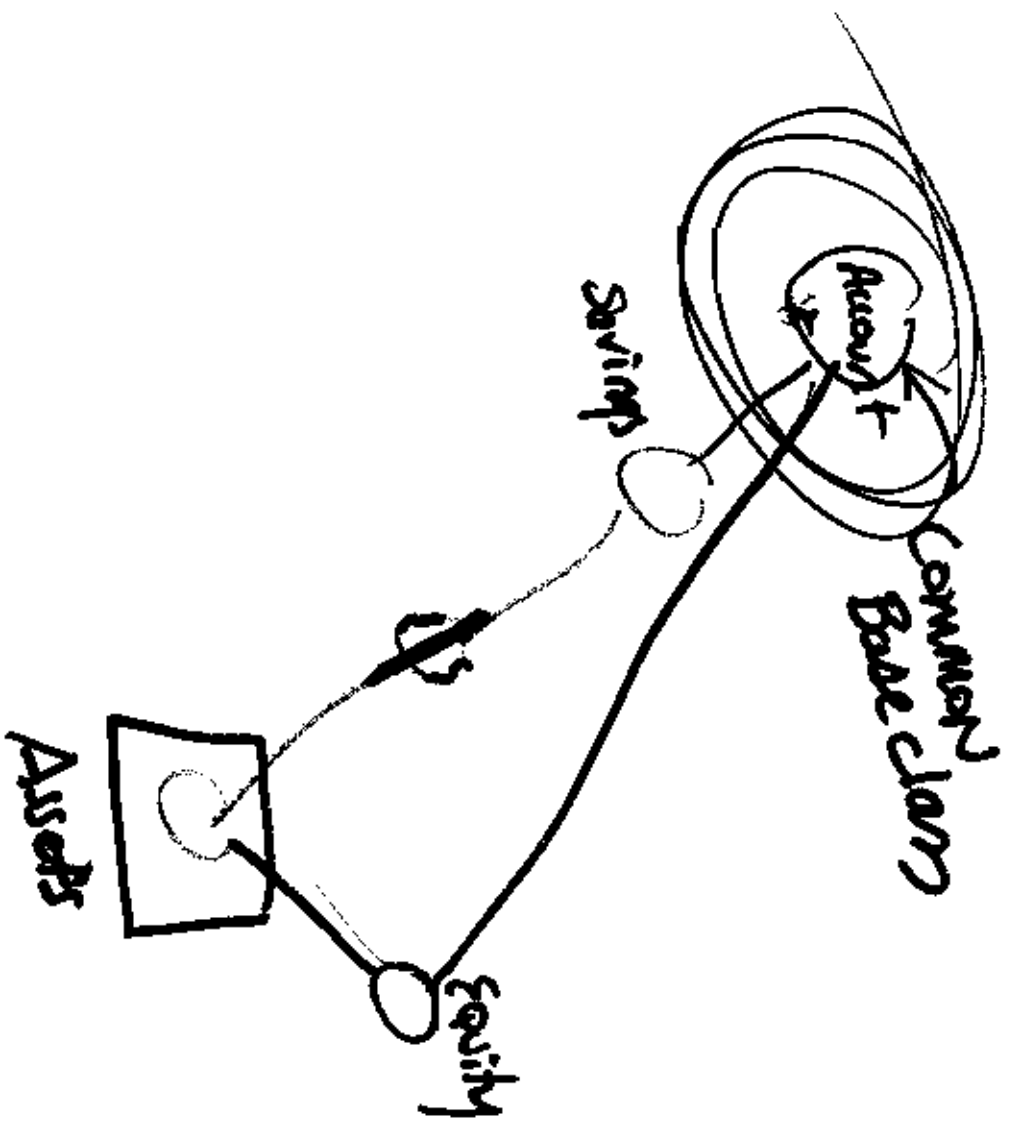
 cout << i;
 cout << c;







Virtual Inheritance



Virtual Inheritance

class Account { ... }
class Savings : virtual public Account { ... }
class Equity : virtual public Account { ... }
class Assets : public Savings, public Equity { ... }

Dynamic Binding

Attribute
color, width, style

