

C++ in depth

## Hybrid inheritance

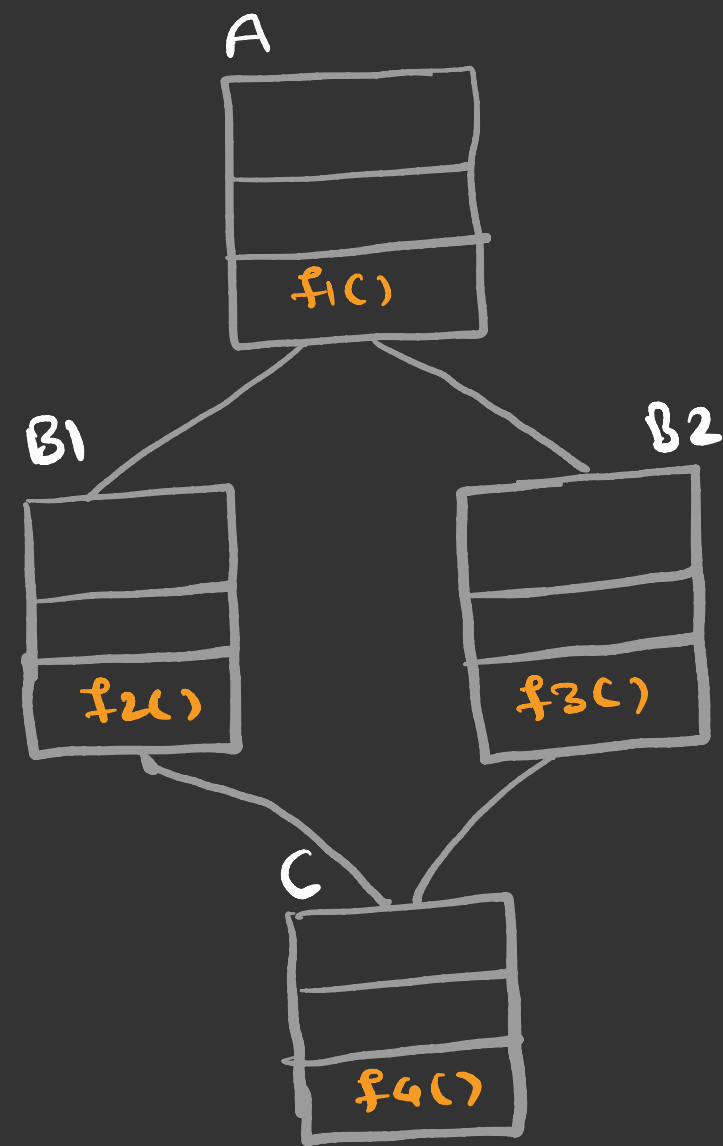


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# Agenda

- ① Hybrid Inheritance
- ② Diamond Problem
- ③ virtual Base class

# Hybrid Inheritance



```
class A
{
    public:
        void f1() { ... }
```

```
};
class B1: public A
{
    public:
        void f2() { ... }
```

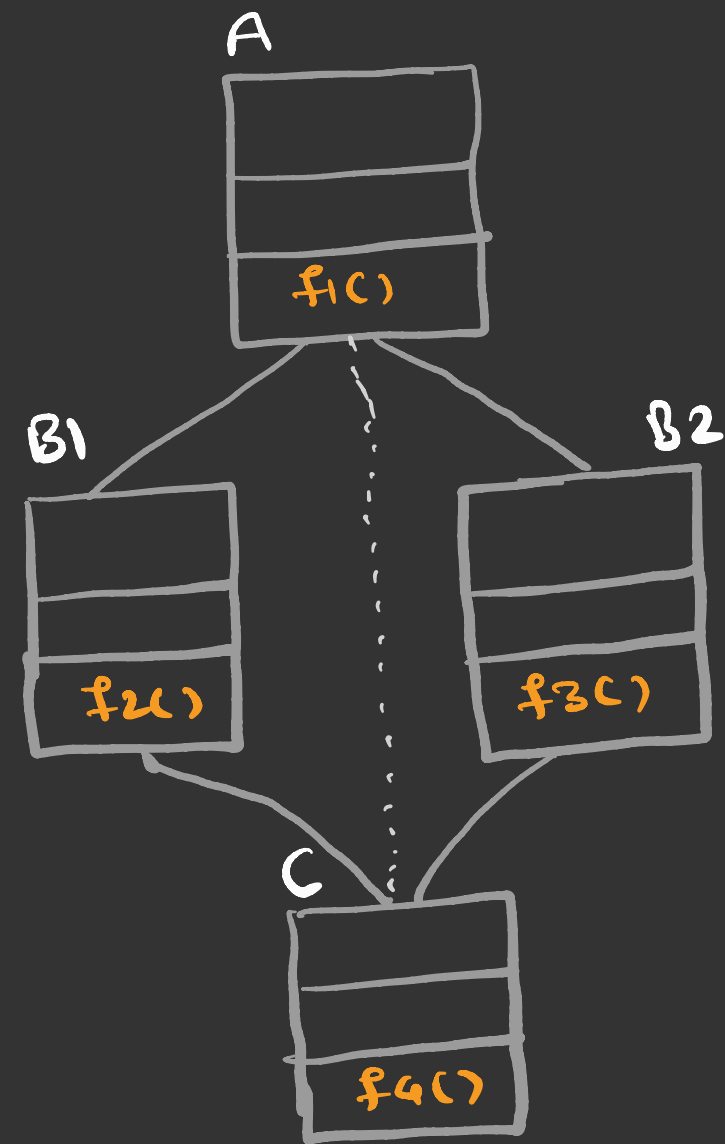
```
};
class B2: public A
{
    public:
        void f3() { ... }
```

```
};
class C: public B1, public B2
{
    public:
        void f4() { ... }
```

```
}
    C obj;
    obj.f4(); C
    obj.f3(); B2
    obj.f2(); B1
    obj.f1();
}
```

Ex 100

Diamond Problem  
or  
Diamond of Death



Dis-inheritance  
virtual base class

```

class A
{
  public:
    void f1() {...}
};
  
```

```

class B1: virtual public A
{
  public:
    void f2() {...}
};
  
```

```

class B2: virtual public A
{
  public:
    void f3() {...}
};
  
```

```

class C: public B1, public B2
{
  public:
    void f4() {...}
};
  
```

```

{
  C obj;
  obj.f4();
  obj.f3();
  obj.f2();
  obj.f1();
}
  
```

