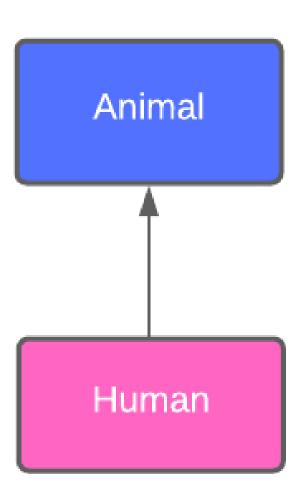
Human human; Animal *h = &human;

Static := Compile-time Animal

Dynamic := Run-time Human

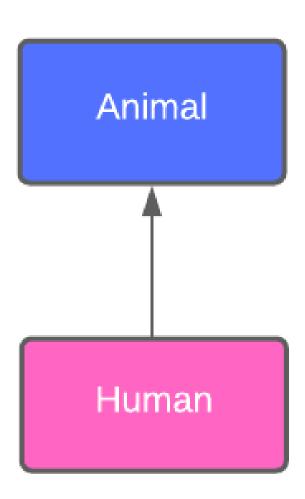


Human human;

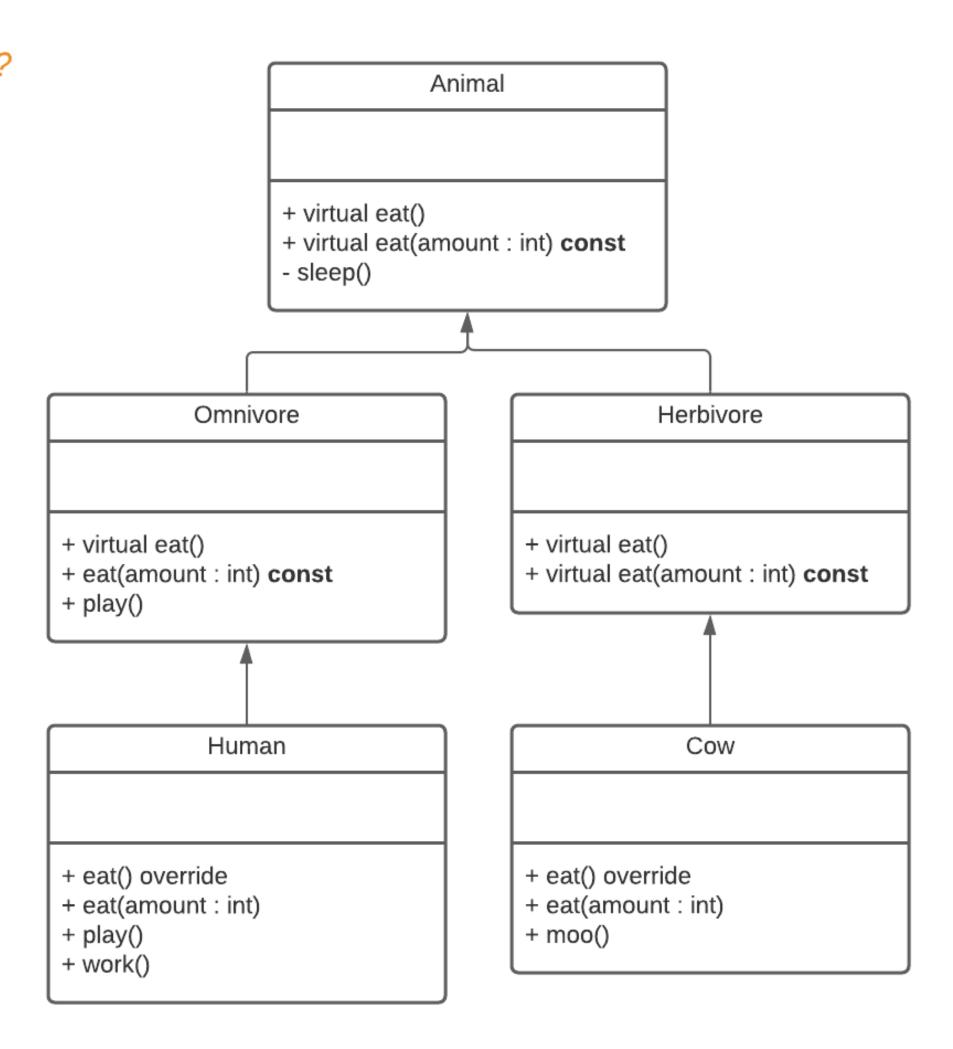
```
Animal h = human;
No indirection (object slicing!)
```

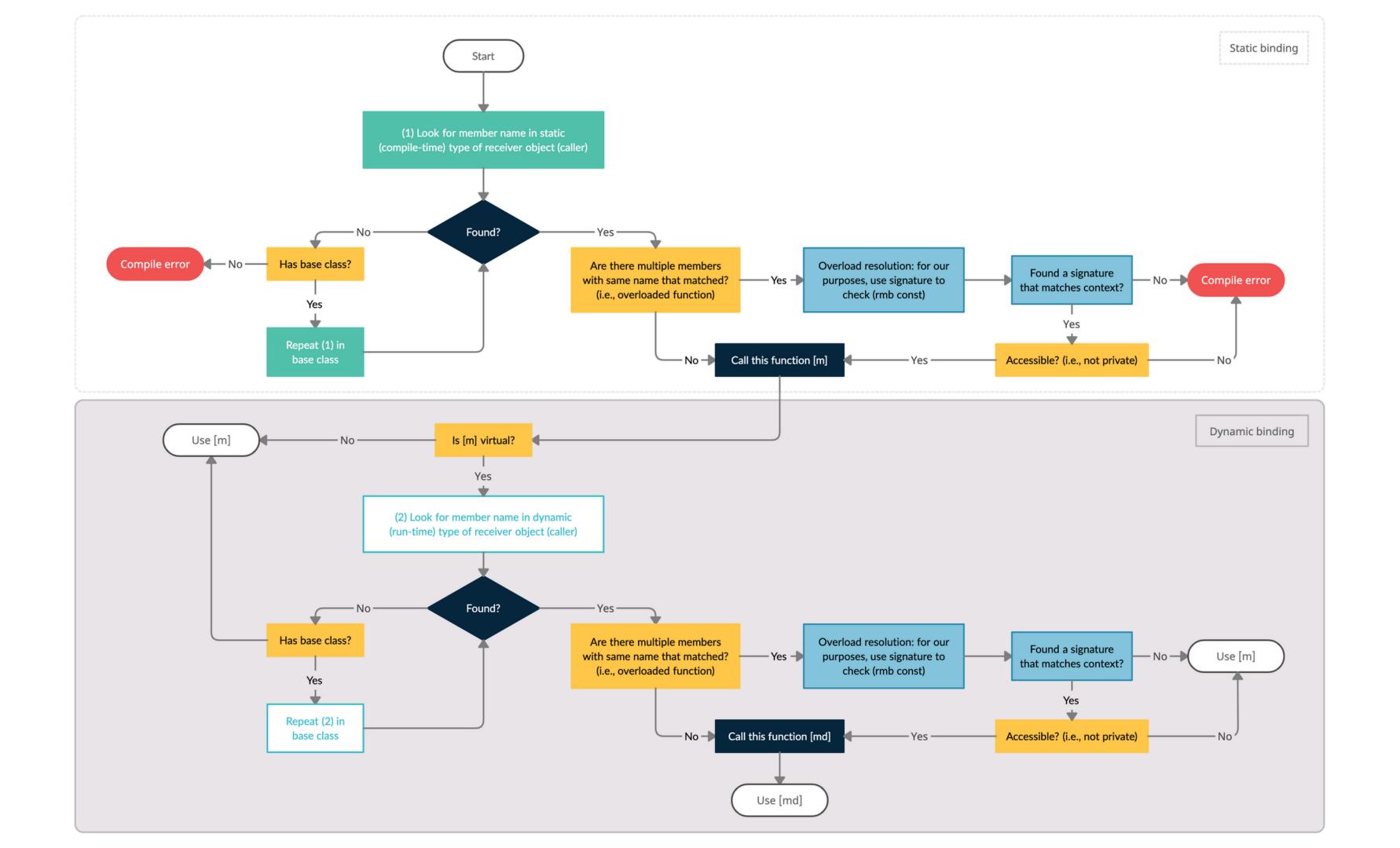
```
Animal *h = &human;
Indirection
```

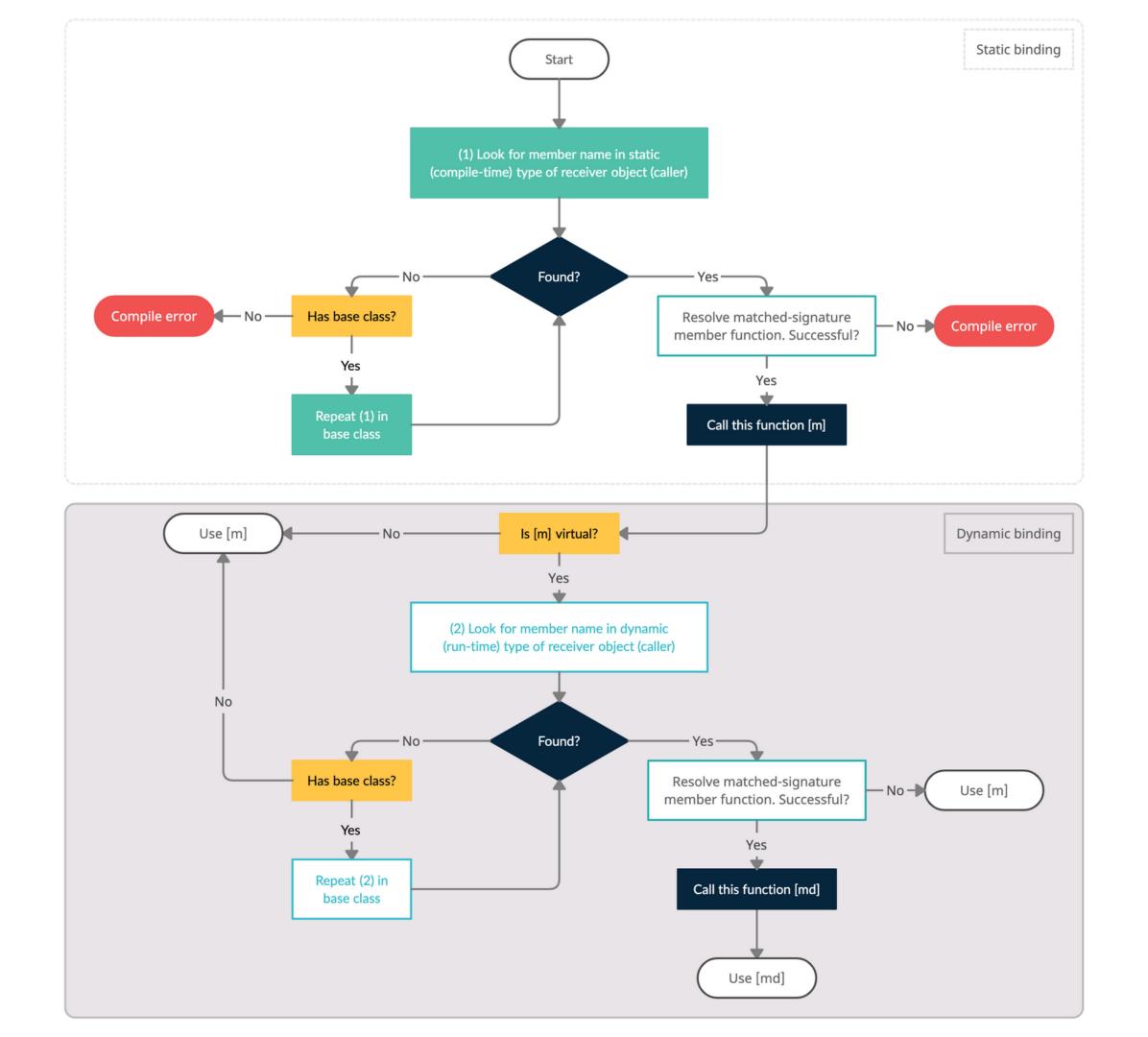
(* := indirection operator)

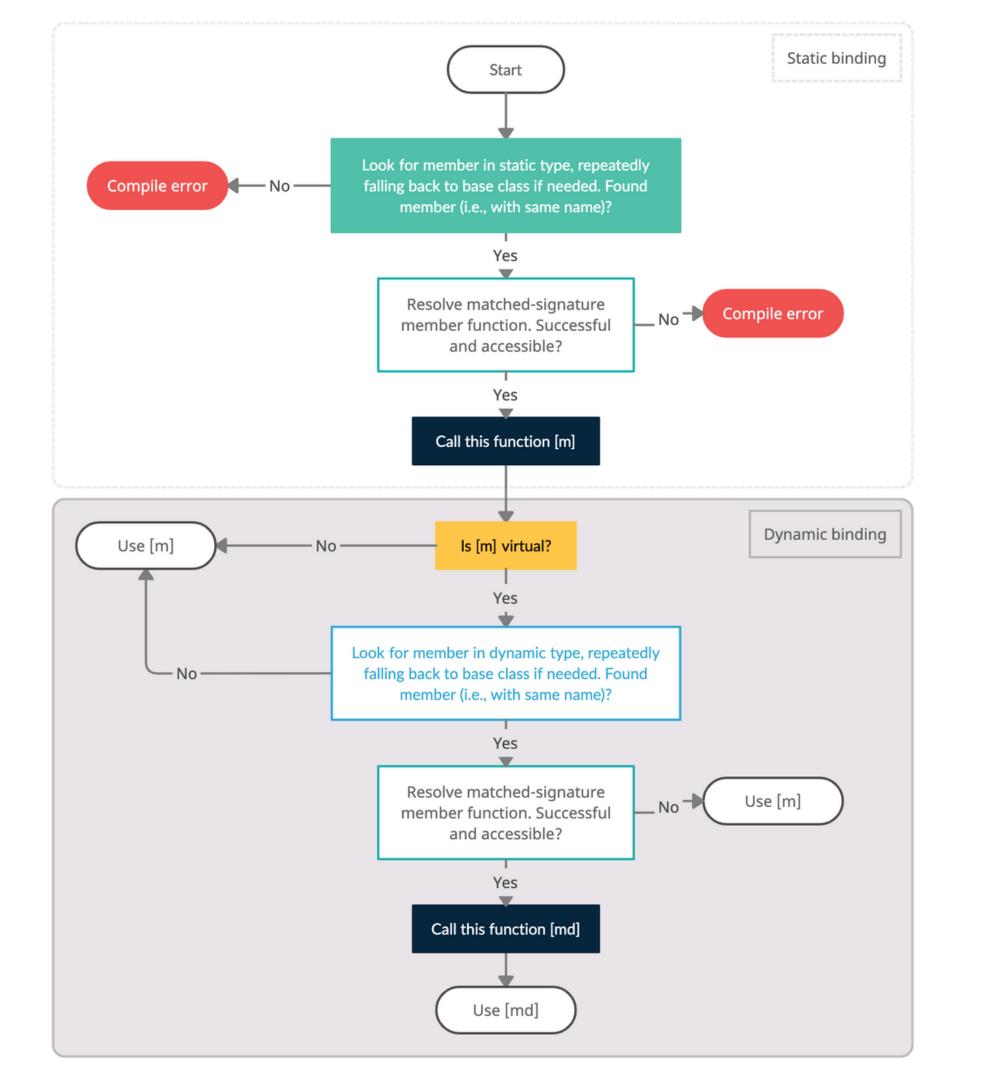


```
// Which method is called?
Human human;
                                   a.eat();
Cow cow;
Omnivore omnivore;
                                   o_omnivore->eat();
// No indirection
Animal a = human; // object slicing!
                                   a_human->sleep();
                                   a human->eat();
// Indirection
                                   a human->eat(2);
Omnivore *o_omnivore = &omnivore;
                                   a human->play();
Animal *a_human = &human;
                                   o_human->eat();
Omnivore *o_human = &human;
                                   o_human->eat(2);
Animal *a_cow = &cow;
                                   o_human->play();
Herbivore *h_cow = &cow;
                                   a_cow->eat();
Animal *a_omnivore = &omnivore;
                                   a cow->eat(2);
                                   a_cow->moo();
                                   h cow->eat();
                                   h_cow->eat(2);
                                   a omnivore->eat();
                                   a_omnivore->eat(2);
                                   a omnivore->sleep();
```









```
// Which method is called?
Human human;
                                   a.eat();
Cow cow;
Omnivore omnivore;
                                   o_omnivore->eat();
// No indirection
Animal a = human; // object slicing!
                                   a_human->sleep();
                                   a human->eat();
// Indirection
                                   a human->eat(2);
Omnivore *o_omnivore = &omnivore;
                                   a human->play();
Animal *a_human = &human;
                                   o_human->eat();
Omnivore *o_human = &human;
                                   o_human->eat(2);
Animal *a_cow = &cow;
                                   o_human->play();
Herbivore *h_cow = &cow;
                                   a_cow->eat();
Animal *a_omnivore = &omnivore;
                                   a cow->eat(2);
                                   a_cow->moo();
                                   h cow->eat();
                                   h_cow->eat(2);
                                   a omnivore->eat();
                                   a_omnivore->eat(2);
                                   a omnivore->sleep();
```

