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## Język C#

Co mogę w nim zrobić?



Tools

Command Line



Desktop

Windows Forms / WPF



Web

MVC / Razor Pages / Blazor



Mobile

MAUI



Services

Web Api



Games

**>\_ dotnet CLI**

Windows / MacOS / Linux



**Visual Studio**

Windows



**Visual Studio Code**

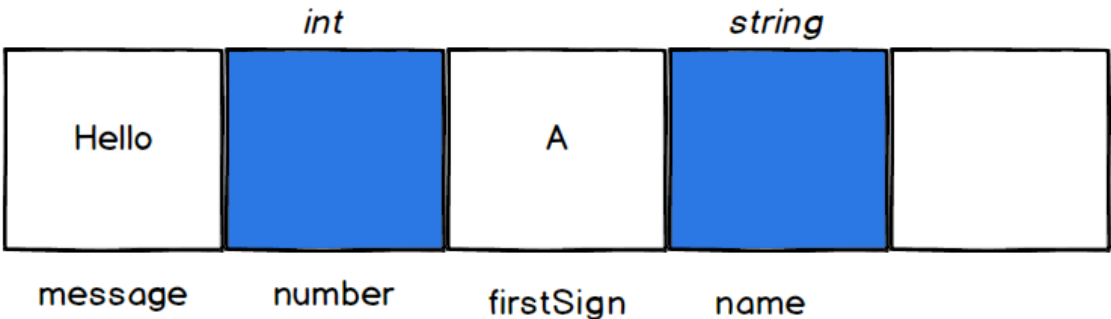
Windows / MacOS / Linux



**Rider**

Windows / MacOS / Linux

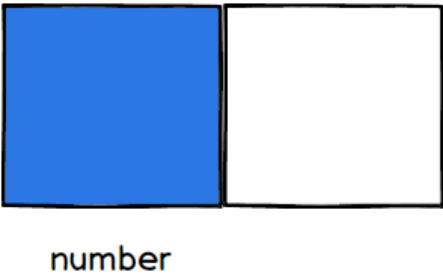
static typing (C#)



```
int number = 1;  
number = "ABC";
```

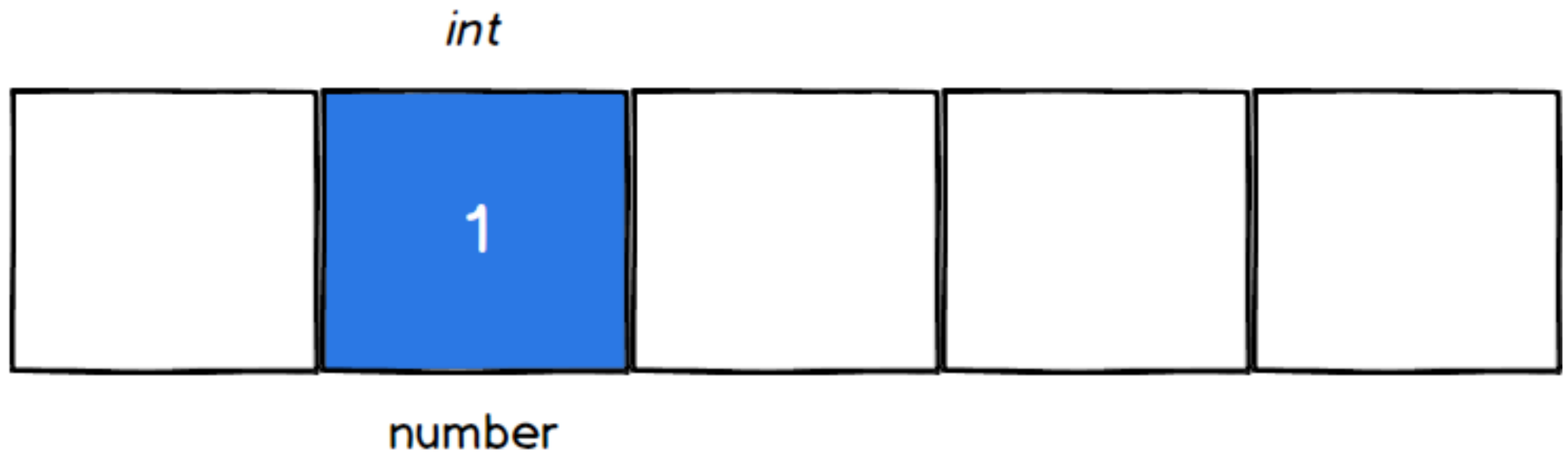
dynamic typing (JavaScript)

*string / number*



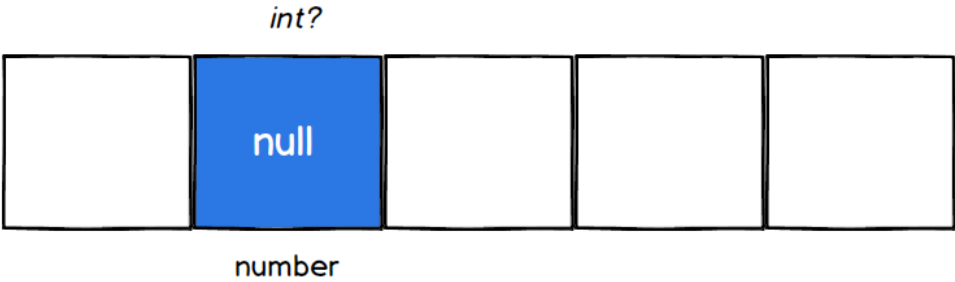
```
var number = 1;  
number = "ABC";
```

## Constants

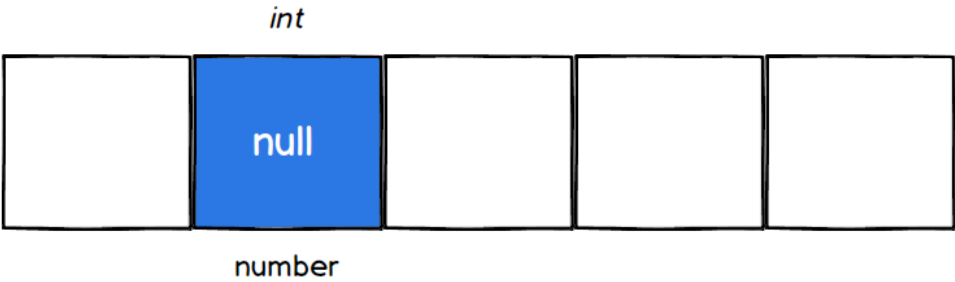


```
const int number = 1;  
number = 2; .
```

Nullable Value Types

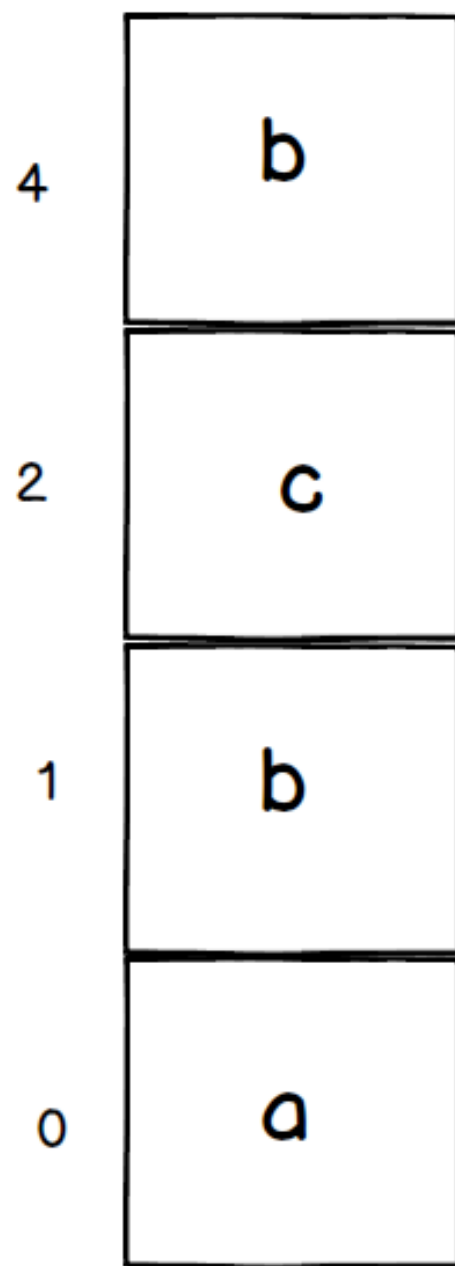


```
int? number = null;  
if (number.HasValue) ...
```



```
*int number = null*;
```

Array



char

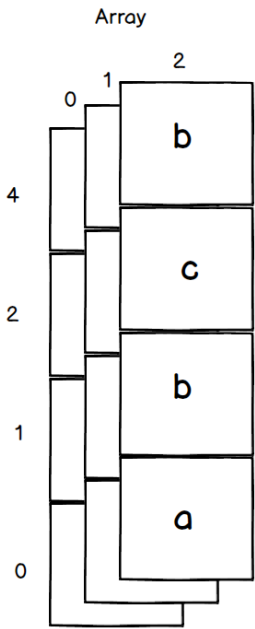
blocks

int



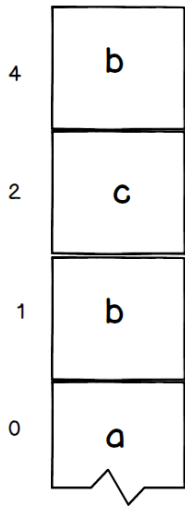
numbers

Array vs List



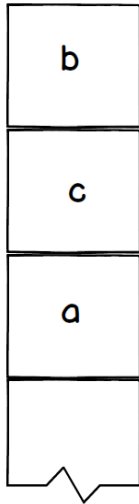
List

Value



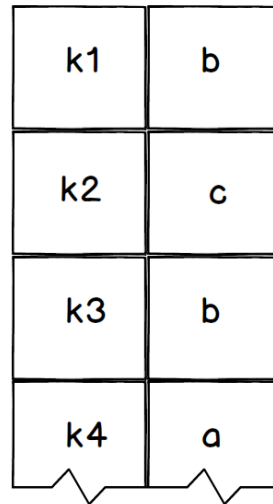
HashSet

Value



Dictionary

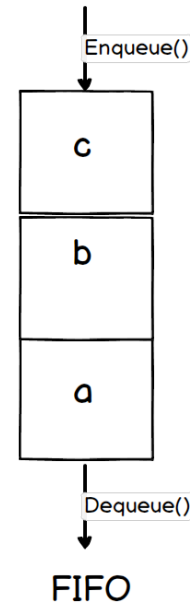
Key Value



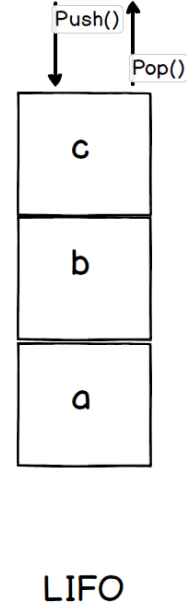
~~k2~~

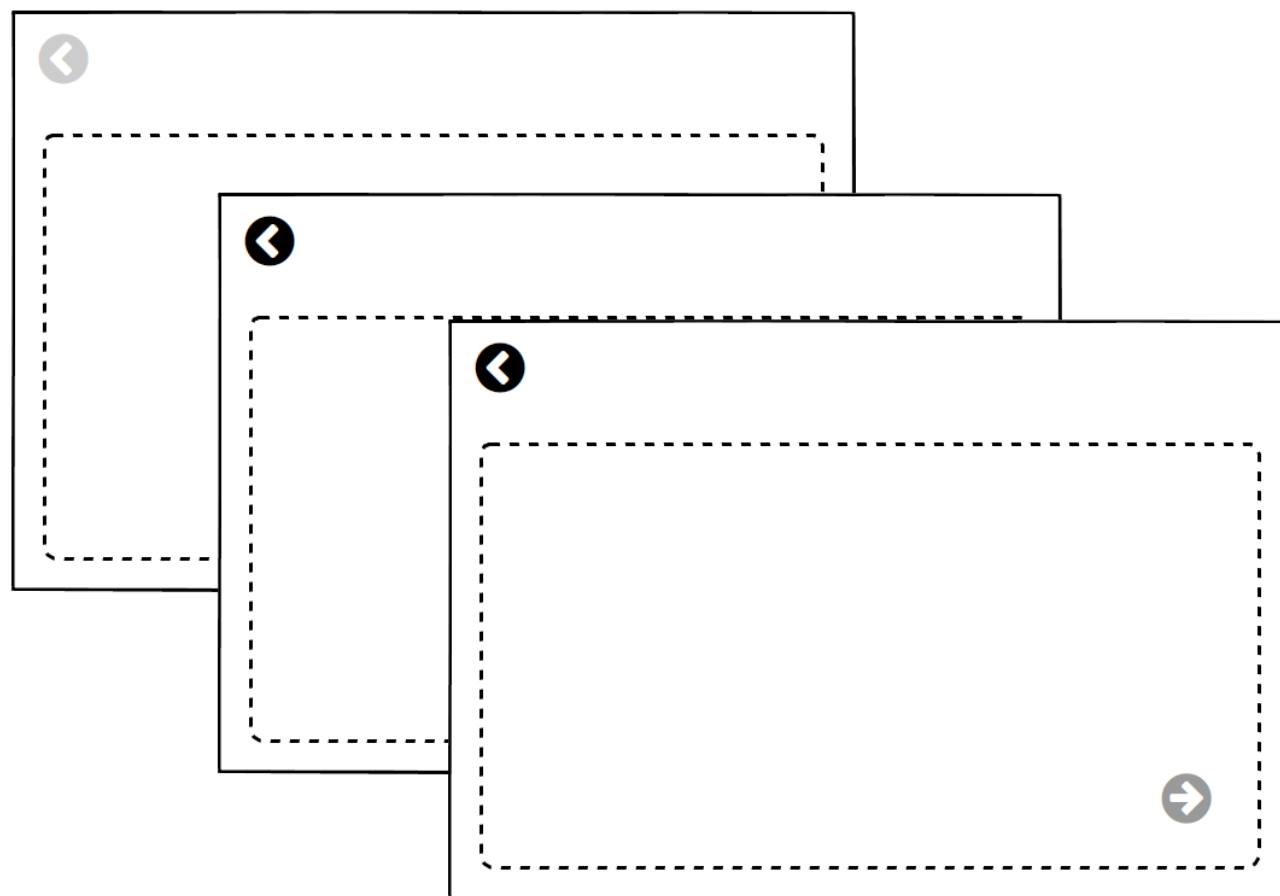
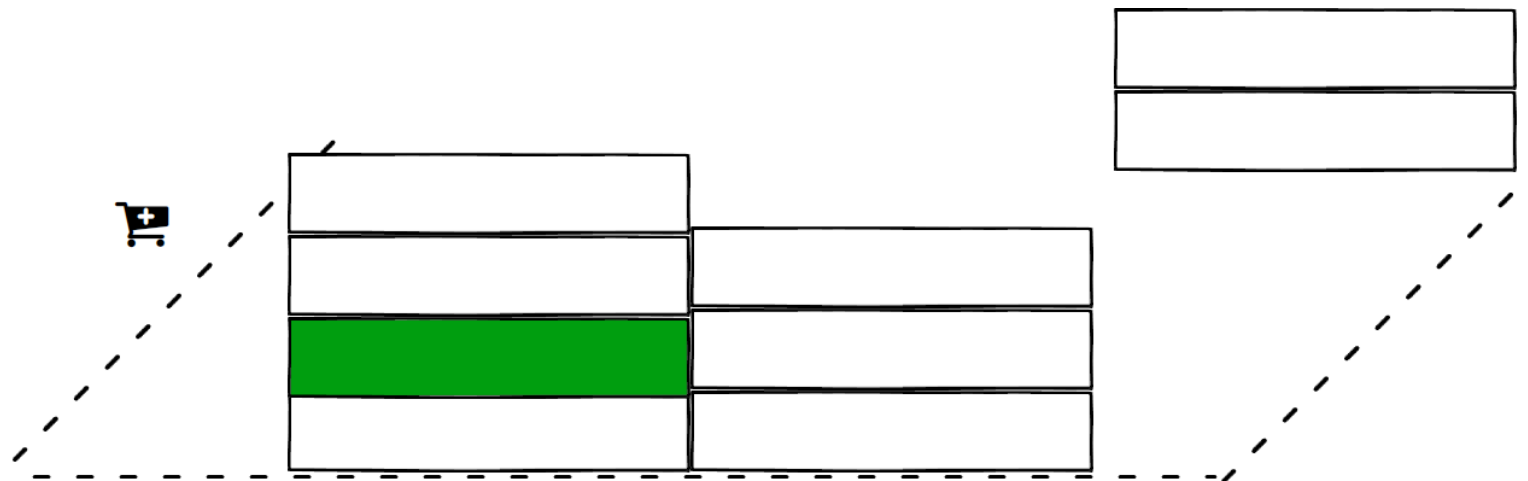
.Keys .Values

Queue



Stack

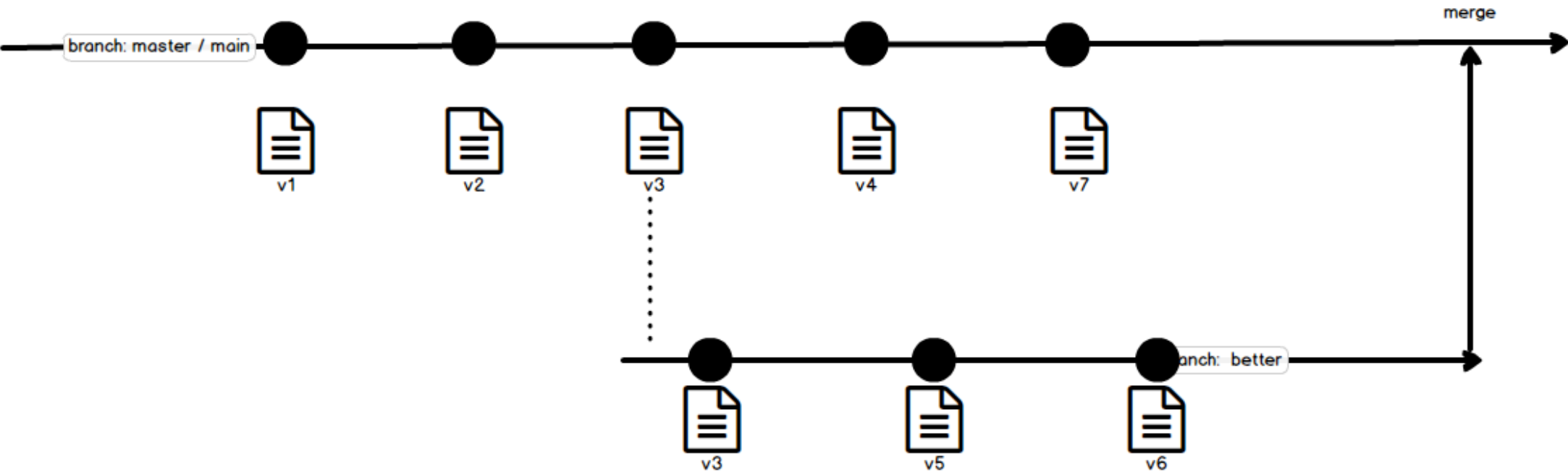




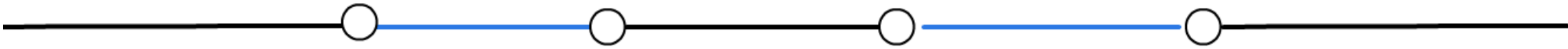


# GIT

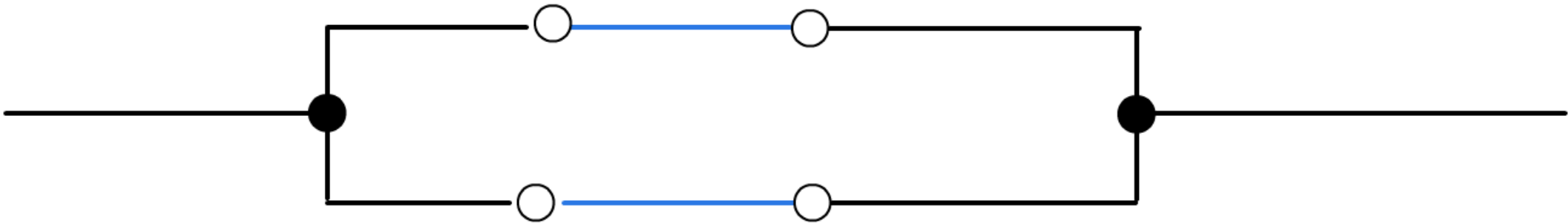
GitHub / GitLab



AND



OR



8

4

2

1

Read

 $=4$ 

Write

 $=2$ 

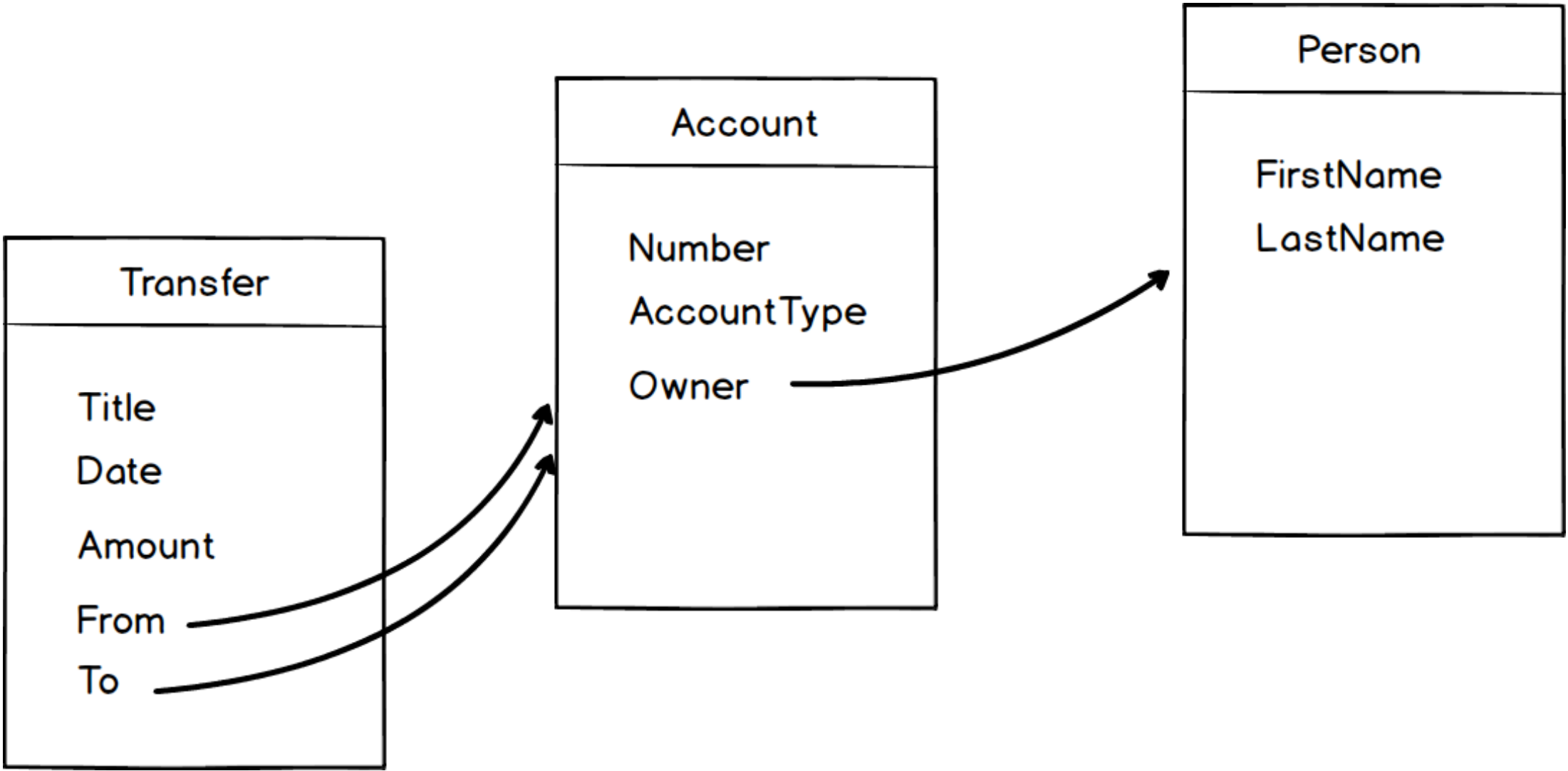
.....

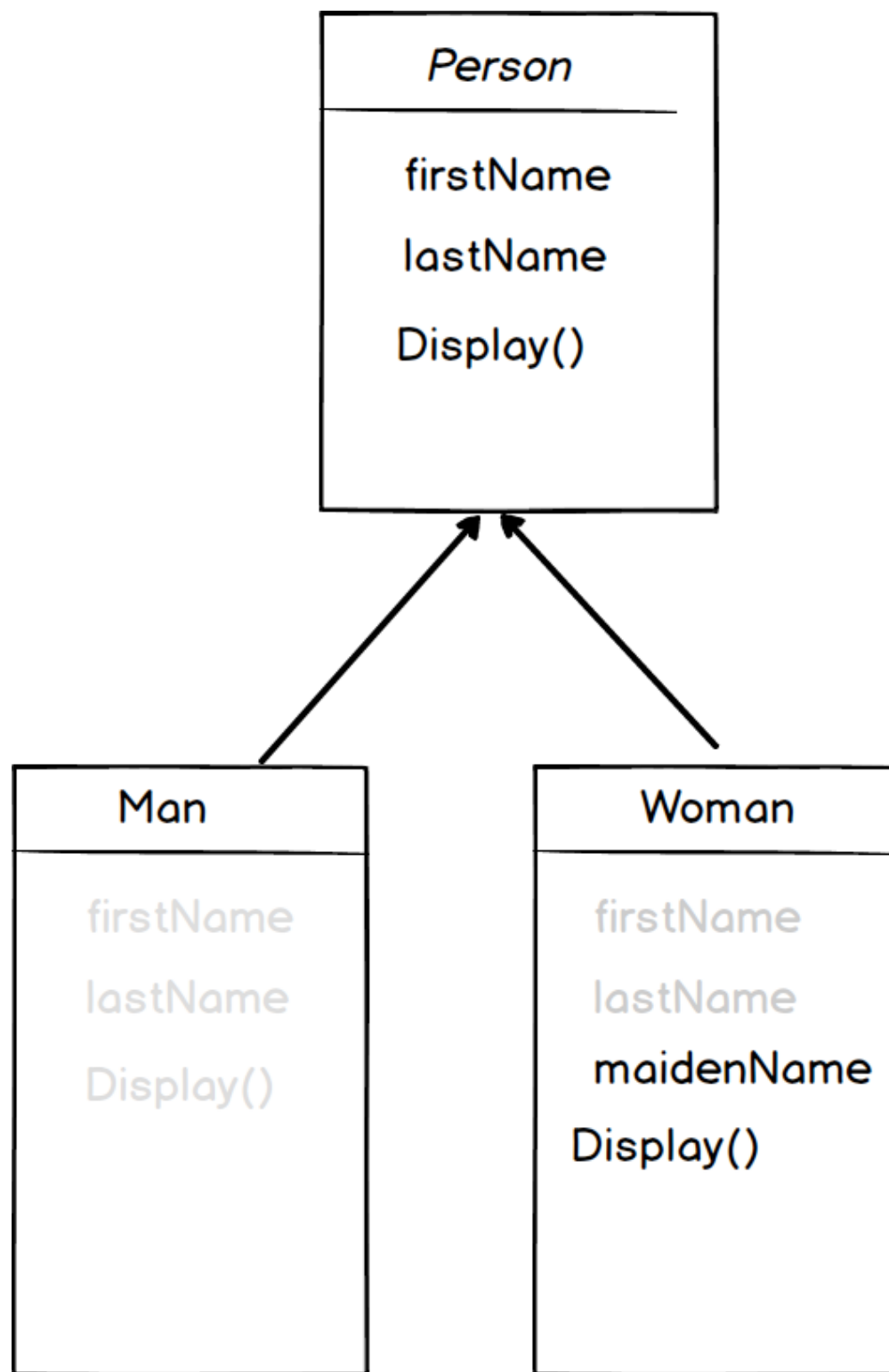
OR

 $=6$ 

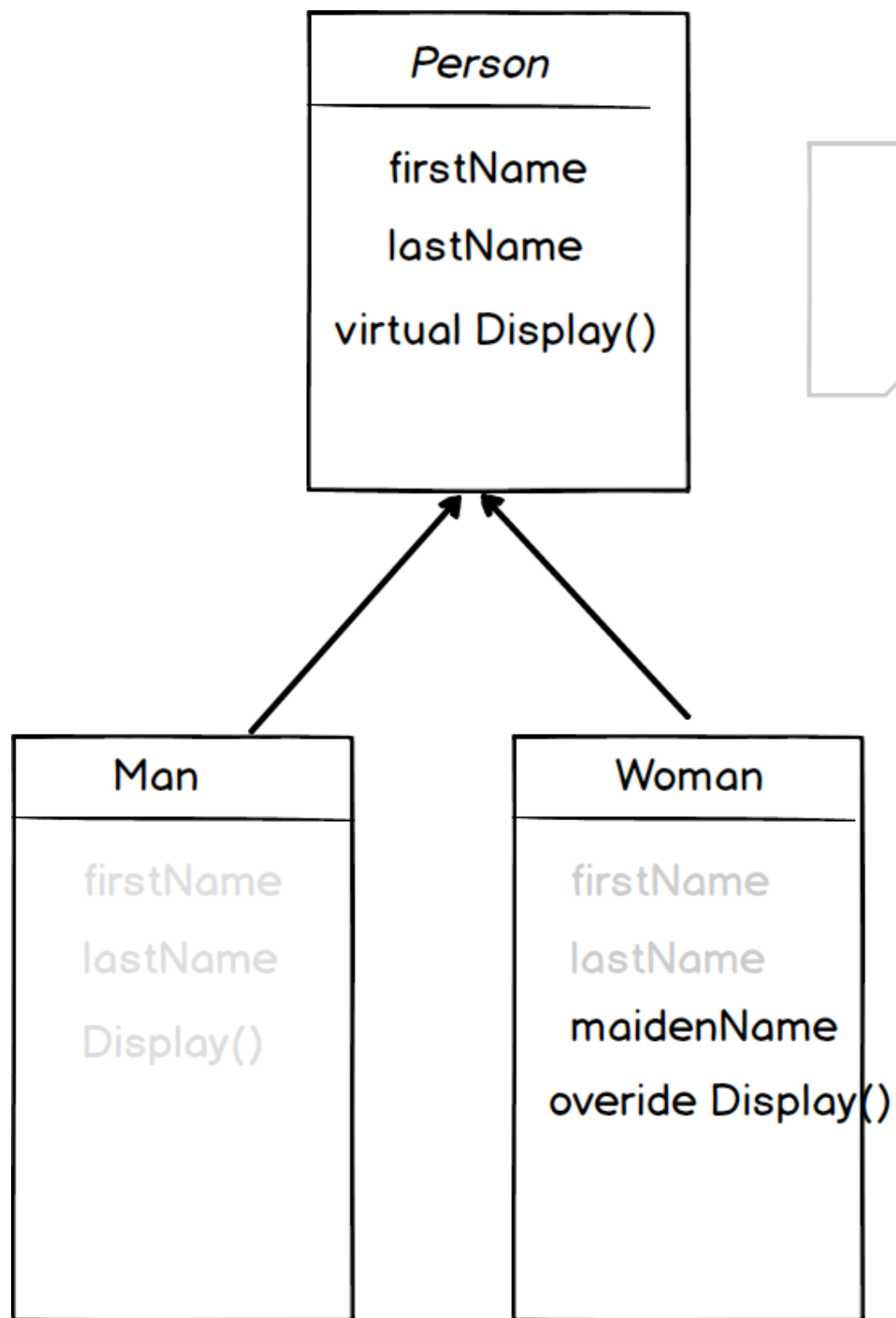
AND

 $== \text{READ}$

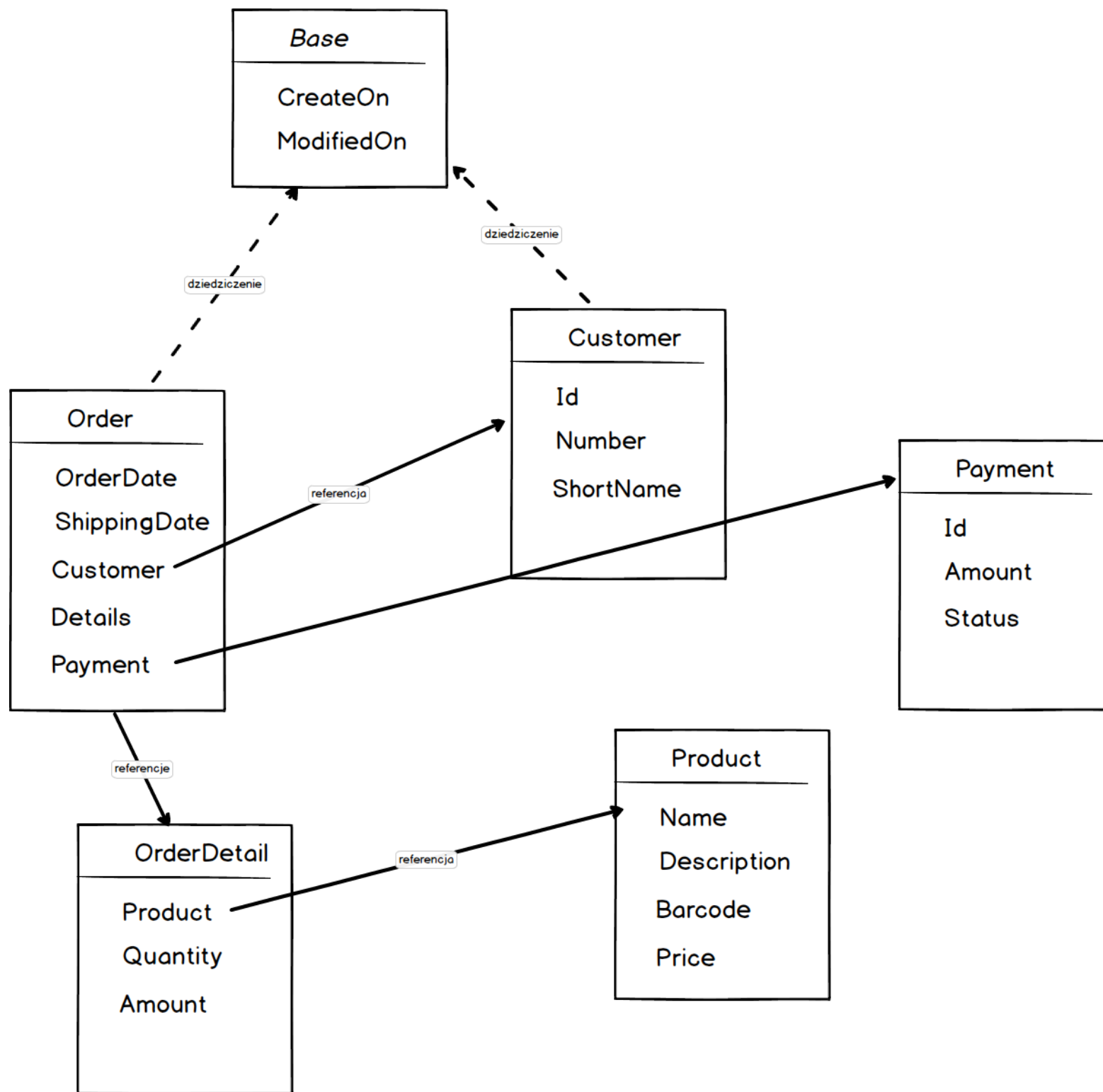


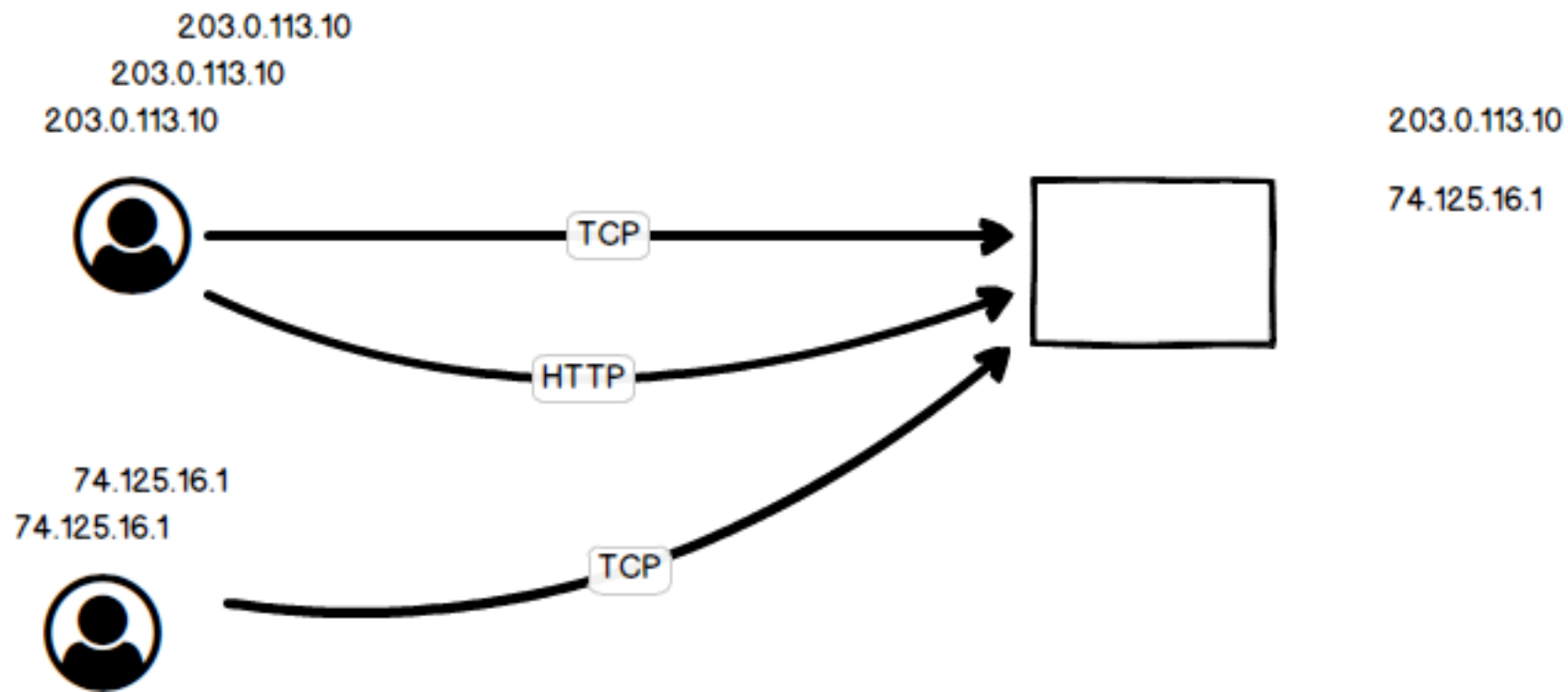


```
Woman person = new Woman();
person.Display();
```



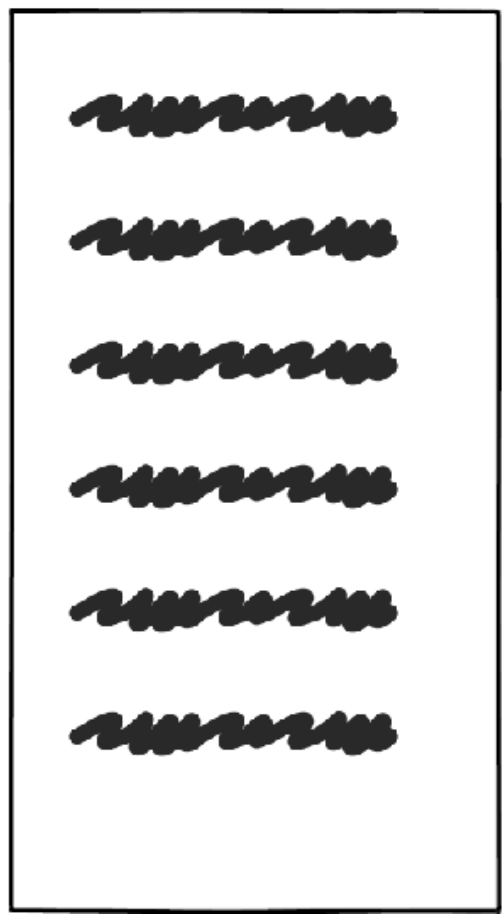
```
Person person = new Woman();
person.Display();
```







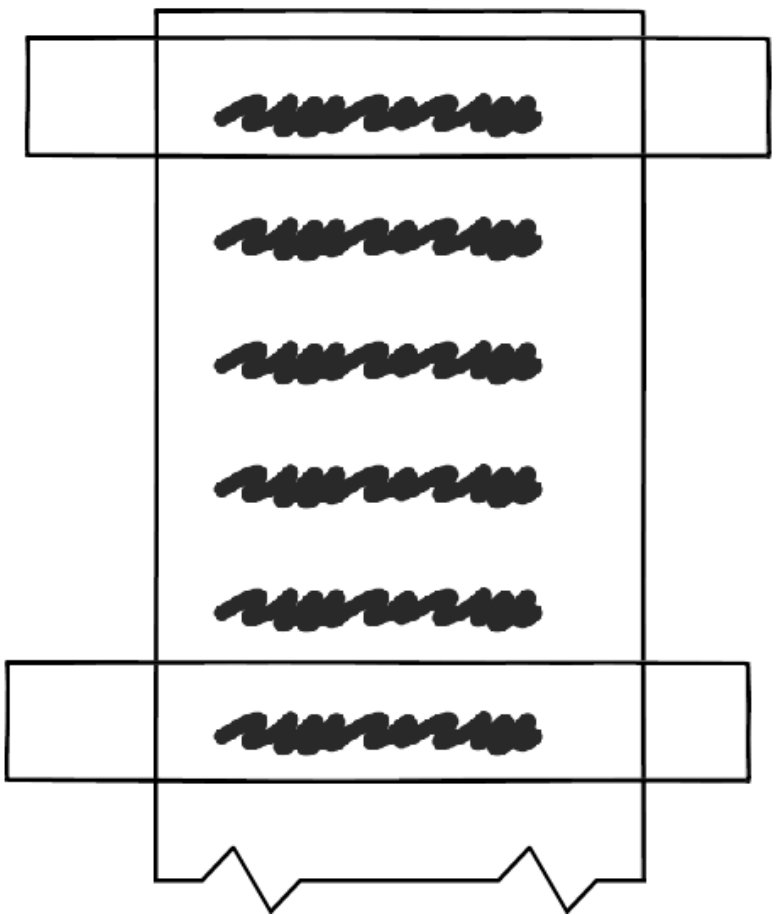
```
string[] lines = File.ReadAllLines();
```



Position

Position

Stream



FileStream

MemoryStream