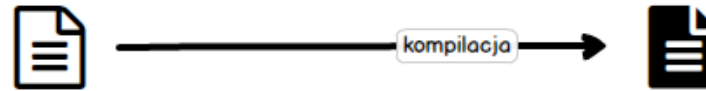
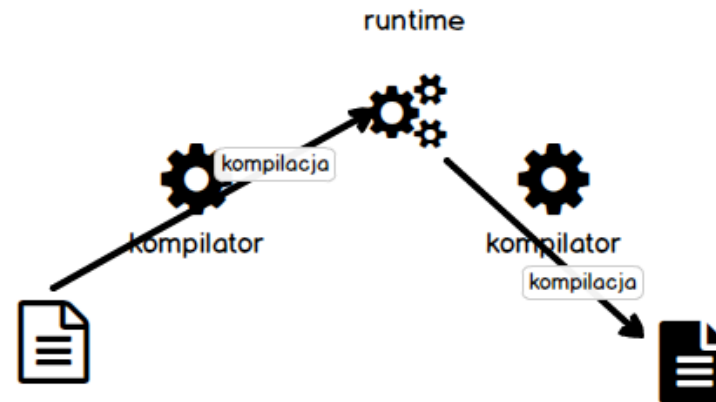


C++ / Pascal



Java

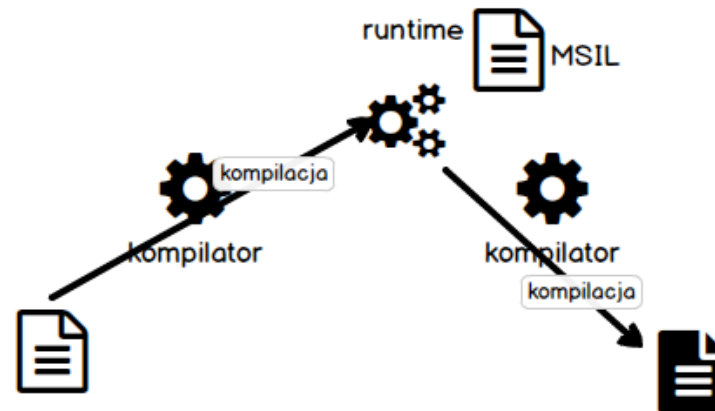


.....

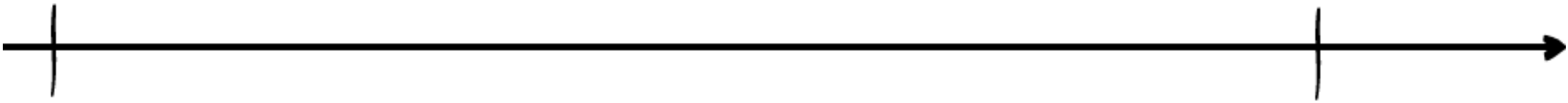
C#

VB

F#



.NET Framework / .NET Core



C# 1.0

C# 11



.NET Framework



.NET Core

Język C#

Co mogę w nim zrobić?



Desktop

Windows Forms / WPF



Web

MVC / Razor Pages / Blazor



Mobile

Xamarin / MAUI



Command Line

C#



Games

>_ dotnet CLI



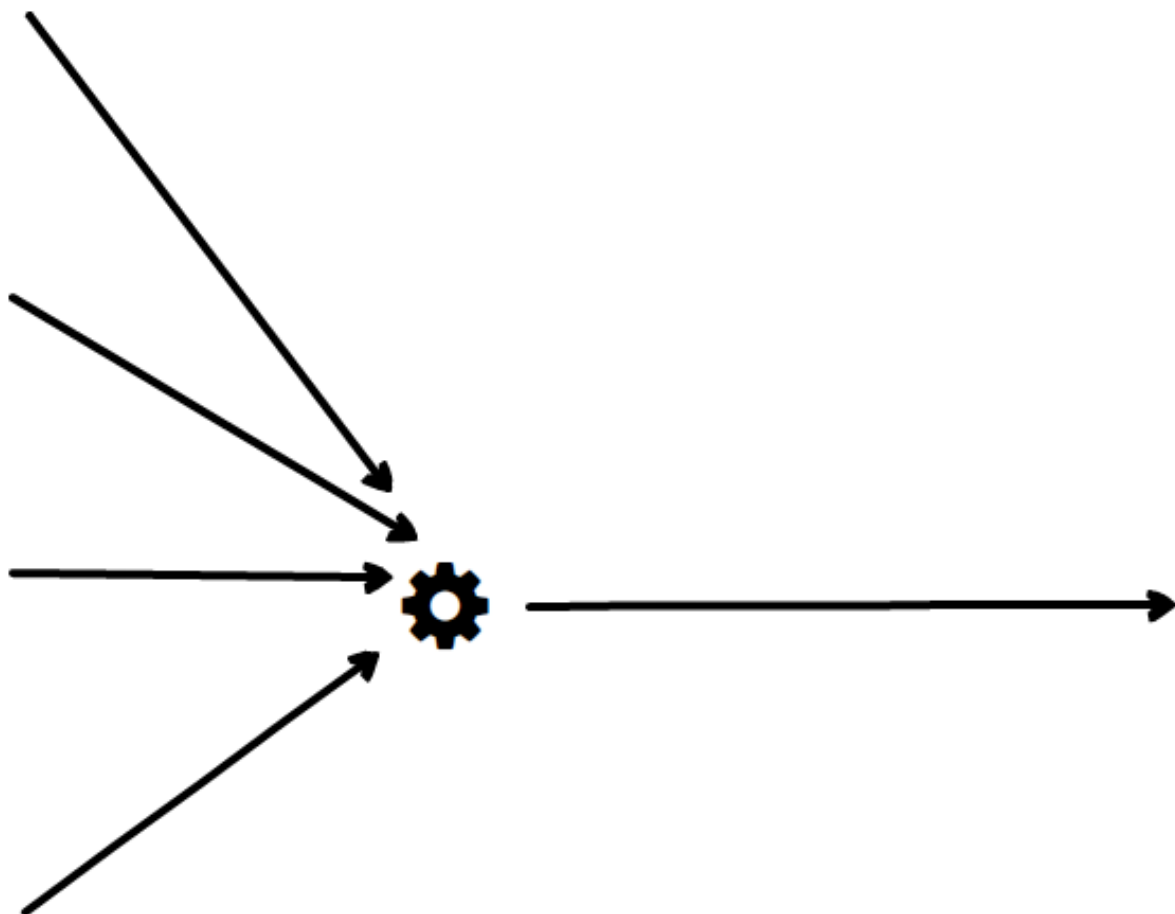
Visual Studio



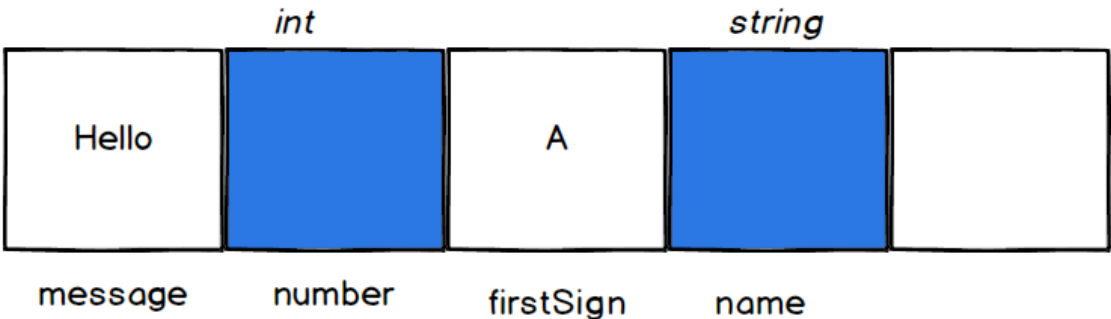
Visual Studio Code



Rider



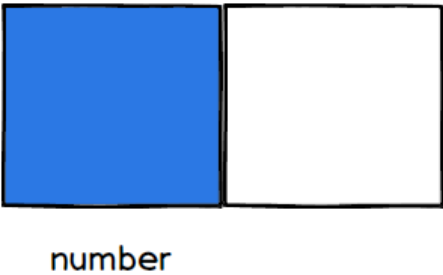
static typing (C#)



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

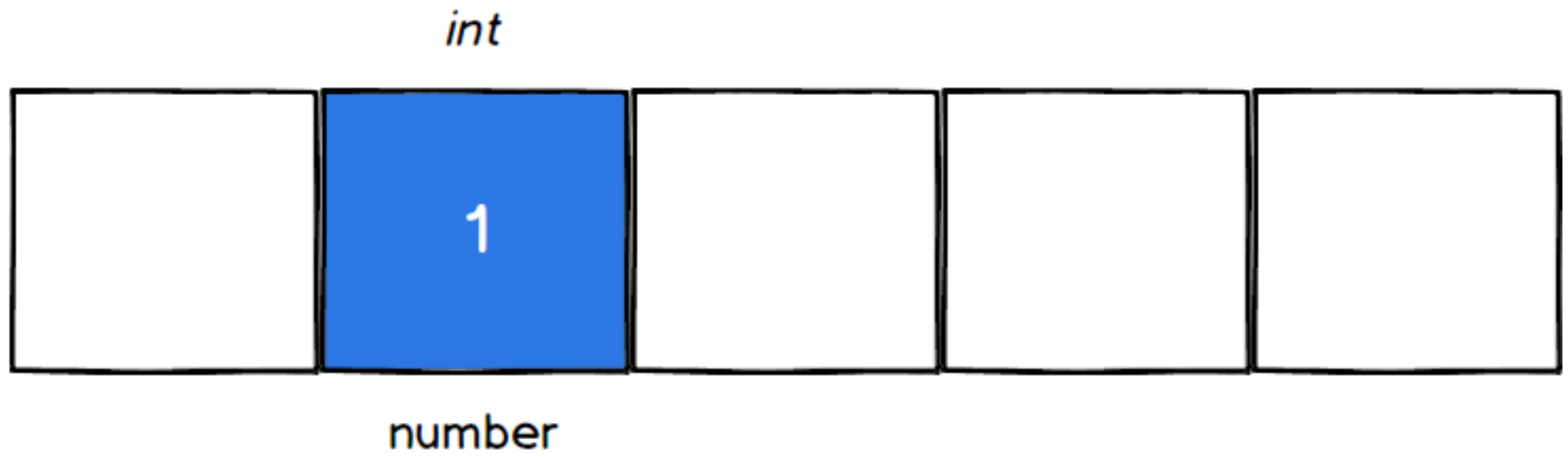
dynamic typing (JavaScript)

string / number



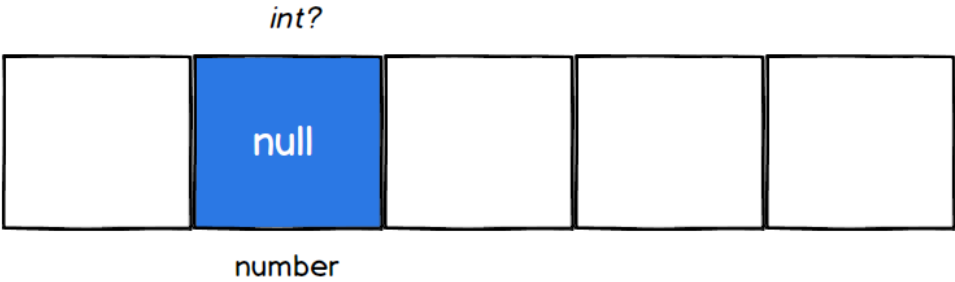
```
var number = 1;  
number = "ABC";
```

Constants

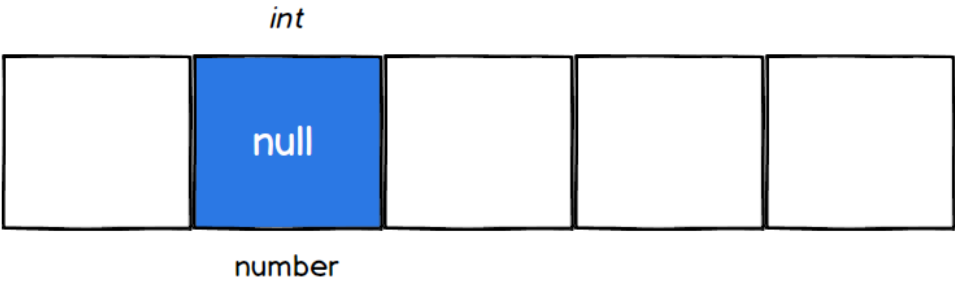


```
const int number = 1;  
number = 2; .
```

Nullable Value Types



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



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

$1 + 1 = 2$

$0 + 1 = 1$

$\text{NULL} + 1 = \text{NULL}$

$\text{NULL} * \text{NULL} = \text{NULL}$

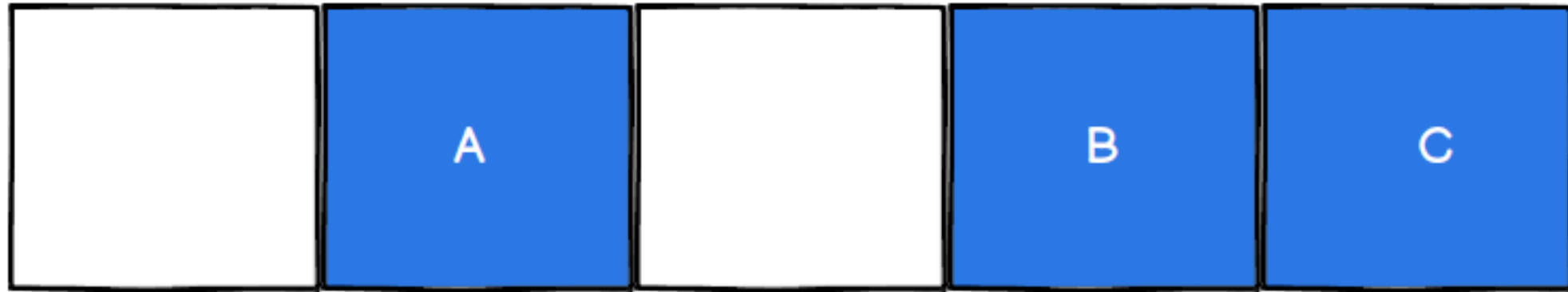
$! \text{NULL} = \text{NULL}$

WHERE salary IS NULL

SQL: SELECT SUM(salary) FROM Employees

SQL: SELECT AVG(ISNULL(salary, 0)) FROM Employees

string[5]



index

0

1

2

3

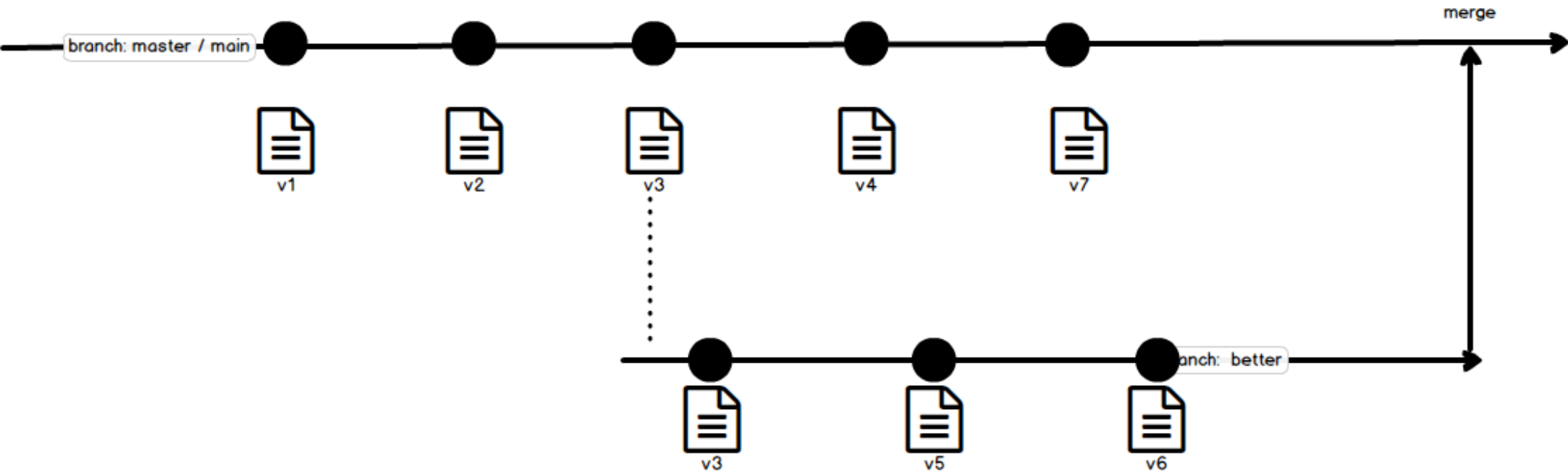
4



board[wiersz, kolumna]

GIT

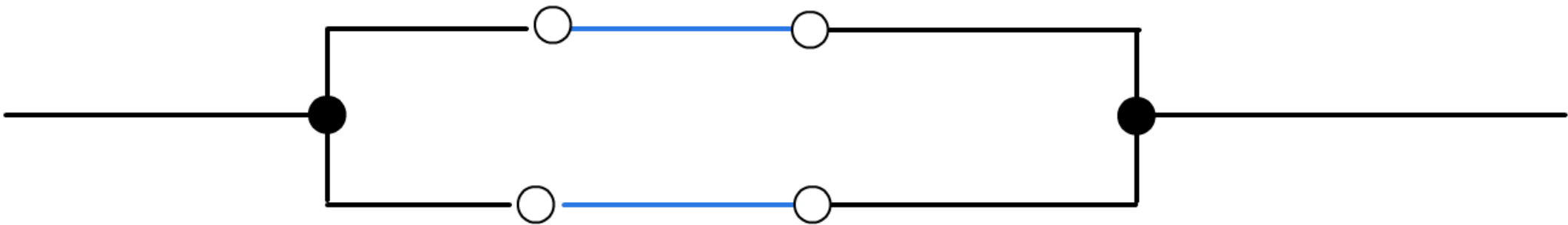
GitHub / GitLab



AND



OR



8

4

2

1

Read

 $=4$

Write

 $=2$

.....

OR

 $=6$

AND

 $== \text{READ}$