

1 x = 1

AST
1 | = | x | 1

2 while

x <= 2

in out
2 | while | 3 | 5 |

→ 3

echo x

3 | echo | x

4

x = x + 1

4 | = | x | 1 | 1

→ 5

5 |

codes

AST

next

→ 1 | = | x | 1 | 2 |

in out where den

→ 2 | while | 3 | 5 |

next

→ 3 | echo | x | 4 |

next

→ 4 | = | x | + 1 | 2 |

→ 5 |

→ end |

hash

x → 3

console

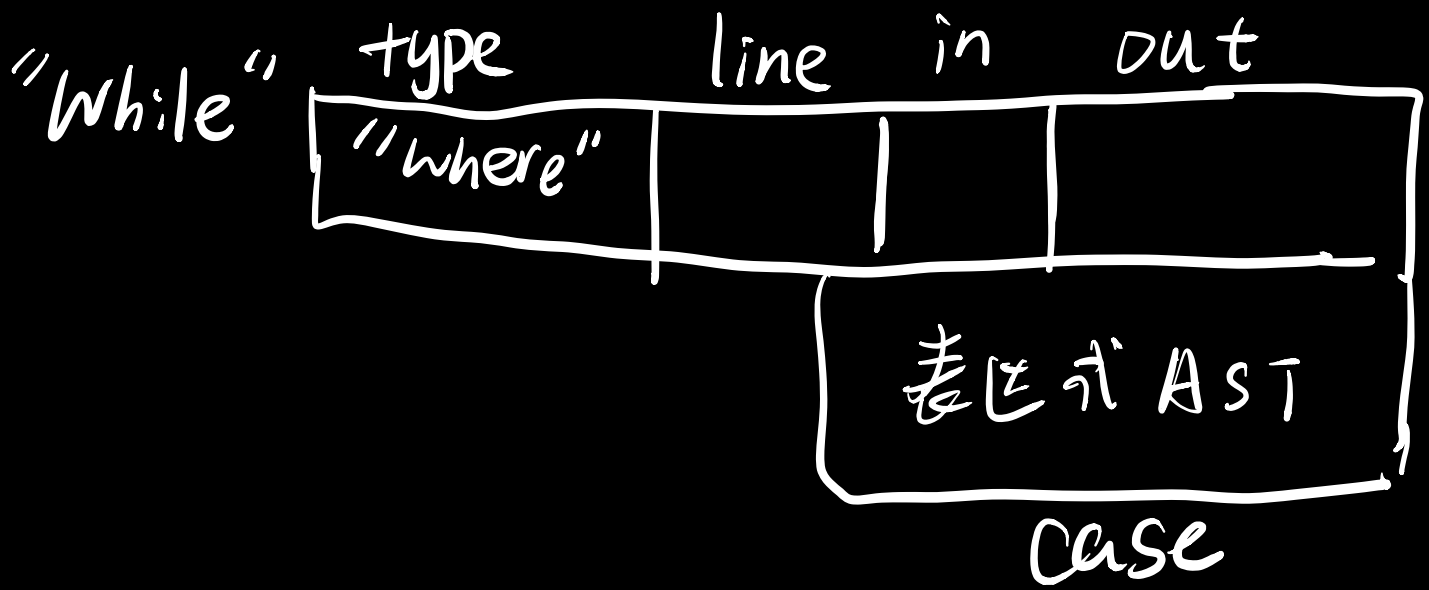
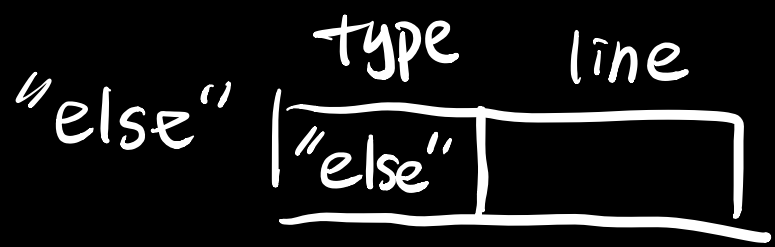
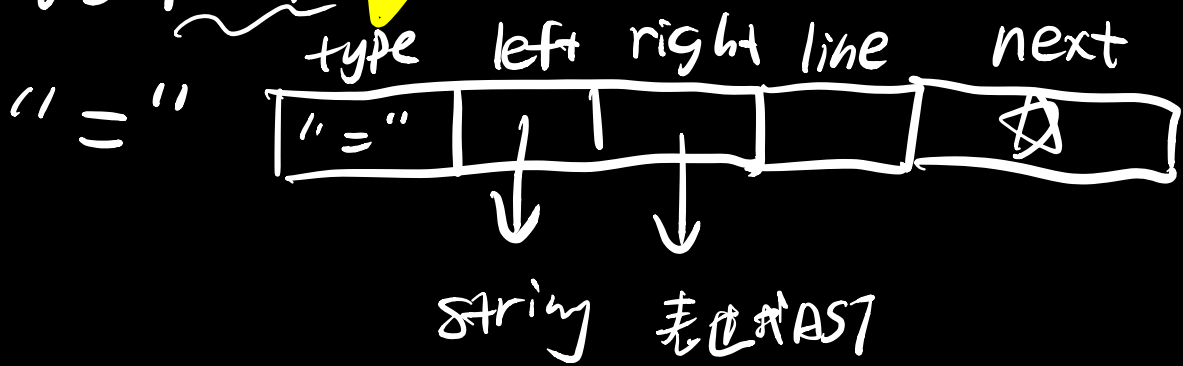
1
2

1 hash

2 IO

3. 控制.

语句AST



"get"

type	line	name(string)
"get"		変数名

"echo"

type	line	content
"echo"		表式 AST

表达式 AST



整数

type	value
"int"	1

浮点

type	value
"float"	1.0

变量名

type	value
"name"	字符串 "x"

布尔

type	value
"bool"	True, False

二元运算符

+

运算符

-

*

/

//

and

or

not

(left)

type	op	left	right
"bin"	"+"		



表达式AST

表达式AST

type value

AST

type	value
int	2

x = 1 + 1

hash

x

type	op	left	right
	+	①	①

string → data