

≡ constants

7, true

≡ Variables

let seven = (expression)

Bsp:

let seven = 7

let student = (2, 3)

≡ unary operator

not true, -x

⇒ binary operator

+ - * / mod

+ . - . * . / .

|| && ^

⇒ Tuple

let (x, y) = (1, 2)

⇒ Records

~~let~~ type person = { name: string; age: int }
(Declaration)

let hansu = { ... }

匿名函数: (fun x → 0) (1 :: II)

IN的用法: let x = 4 ^{定义} in x * x

let f = fun a → a + 2 ^{定义} in f 2

a)*

let a = fun x y → x + 2 in a 3 8 :: II

⇒ Answer: II

For the following expressions, list all contained subexpressions and give their corresponding type. Then evaluate the expression:

(*) a *) let a = fun x y → x + 2 in a 3 8 :: []

Handwritten notes on the screen:

- int → a → int
- int
- int
- int
- int list
- int
- int → a → int
- int
- int
- int list

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b)* ((fun $\overset{'a \rightarrow [a]'}{x \rightarrow x :: I}$) (9-5), true, ('a', 7))

int list * bool * (char * int)