

INFERRING POLYMORPHIC TYPES.

ex let f 9 = 9 2

val f: (int > ty) > ty = (fun)

1 build parse bon tree

assign type Lon variables fito git, Qity

3) generate constraints

(3) solve constraints

ta = int t1 = cnt > t4

t1 = t3 -> t4 to = (int >ty) >ty

to = t, -> ty unconstrained type variables become polymorphic types.

USING POLYMORPHIC FUNCTIONS.

function &

lot 6 g = g 2

valog: (int > ty) > ty = (fon).

 \hat{O} let add x = 2 + x

possible applications:

valadd: int -> int = (fun)

6 add :- int = 4

(2) let is Even x = mod (2x, 2) == 0

val is Even: int > bool = (fun)

fis Even : - bool = true