

signature #1

type $T = \text{Int}$

data u

$f :: \text{Int} \rightarrow u$

signature #2

data T

type $u = \text{Bool}$

$f :: T \rightarrow \text{Bool}$

② Form graph

① syntactic merge by exports

type $T = \text{Int}$ \Rightarrow type $T = \text{Int}$ \Leftarrow data T
data u \Rightarrow type $u = \text{Bool}$ \Leftarrow type $u = \text{Bool}$
 $f :: \text{Int} \rightarrow u$ \Rightarrow $f :: \text{Int} \rightarrow u$ \Leftarrow $f :: T \rightarrow \text{Bool}$

③ Check **subtyping** relation