Principles of Programming Languages - Homework 11

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Problem 1 1

(a) $t_0 <: t_1$: type t_0 can be safely substituted by values of type t_1 . (i) True: Number can safely be substituted by values of Number. (ii) True: Boolean can safely be substituted by values of Number. (iii) True: Number can safely be substituted by values of Any. (iv)(v) (vi) False (vii) True: since {} is a subtype of Any, and {const f: {}} is a subtype of {const f: any, var g: bool}. (viii) (ix) True (b) (i)

- (ii)
- (iii)
- (iv)