Principles of Programming Languages - Homework 12

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1 Problem 1

```
(a)
     t_1 \sqcup t_2 = \text{Any}
     t_1 \sqcap t_2 = \bot
(b)
     t_1 \sqcup t_2 = \{\}
     t_1 \sqcap t_2 = \{ \text{var f: number, const g: bool} \}
(c)
     t_1 \sqcup t_2 = \{\}
     t_1 \sqcap t_2 = \{ \text{var f: number, const g: bool} \}
(d)
     t_1 \sqcup t_2 = \{ \text{var f: number, const g: } \{ \text{const h: any} \} \}
     t_1 \sqcap t_2 = \{ \text{var f: number, const g: } \{ \text{var h: bool} \} \}
(e)
     t_1 \sqcup t_2 = \text{bool} => \text{any}
     t_1 \sqcap t_2 = \text{bool} => \text{bool}
(f)
     t_1 \sqcup t_2 = \text{any} => \text{any}
     t_1 \sqcap t_2 = \bot
```