WS 2011-2012 09.01.2012

Exercises to the Lecture FSVT

Prof. Dr. Klaus Madlener sheet 11

Exercise 1:

Let $sig = (\{int\}, 0 :\to int, s, abs : int \to int, +, - : int, int \to int)$.

Prove that there is no finite specification for the sig-algebra $\mathbb{Z}$ with the usual interpretation of $0, s, +, -$, and abs. I.e. there is no finite sig- specification $spec$ s.t. $T_{spec} \cong \mathbb{Z}$.

Exercise 2:

Prove theorem 10.15.: For every recursive term-generated sig-algebra $\mathfrak{A}$, there is a finite enrichment sig' of sig and a finite specification $spec' = (sig', E)$ with $T_{spec'} \mid_{sig} \cong \mathfrak{A}$.

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