1 Classes

2 Operators

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\mathcal{B}(R): \forall sub \in R_{subrequirements}, sub: \text{ Course} \\ S \simeq C: S_{name} = C_{name} \\ \{S_1, \dots, S_n\} \cap R: \{s \mid s \in S, \exists c \in R_{sub}: s \simeq C, R_{min\_grade} \preceq S_{grade}\}, \mathcal{B}(R) \\ |R|: \sum_{sub \in R} sub_{hours}, \mathcal{B}(R) \\ R_1 \wedge R_2: \text{Requirement}(\max.\text{hours} = \min\{\min\{R_{1.hours}, |R_{1.sub} \setminus R_{2.sub}|\} + \min\{R_{2.hours}, |R_{2.sub} \setminus R_{1.sub}|\} + |R_{1.sub} \cap R_{2.sub}|, R_{1.hours} + R_{2.hours}\}, \\ \text{subrequirements} = [R_{1.sub} \cup R_{2.sub}]) \\ \{S_1, \dots, S_n\} \vdash R: |\{S_1, \dots, S_n\} \cap R_{sub}| \geq R_{hours}, |\{S_1, \dots, S_n\} \cap R| \geq R_{take}, \mathcal{B}(R) \\ \{S_1, \dots, S_n\} \vdash R: \wedge_{sub \in R_{sub}} |\{S_1, \dots, S_n\} \cap \{sub \mid sub \in R_{sub}, sub: \text{ Course}\}) \\ \text{Requirement}(\{S_1, \dots, S_n\} \cap \{sub \mid sub \in R_{sub}, sub: \text{ Course}\})
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