Umeå University

Department of Computing Science

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Assignment 4

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Problem 1, BLUE-RED-GREEN

Problem 2, Reduction ALL_{CFG} to EQ_{CFG}

If we can decide wether $L(E) \subseteq L(G)$ we could choose $L(G) = \Sigma *$ and decide it's universality. But we know that ALL_{CFG} is not decidable. Hence EQ_{CFG} is also not decidable.

Problem 3, Proof closure under compliment for reduction

Problem 4, Asymptotic Problems