

Analysis of Algorithms and Data Modelling Tasks of the Final Exam in Hungary

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Abstract

The aim of this paper is to study the algorithms and data modeling parts of the Hungarian final exam. In 2005, the final exams were reformed in Hungary. The research includes the final exams from May 2005 to May 2012, focusing on methodical and algorithmic orientated methods of the teaching of programming. The paper examines the presence of programming theorems, data types, and data structures in the tasks, and collects extra ideas which can make the tasks easier to solve. Following this examination, the results are evaluated on the aspects of the proportion of programming theorems, whether it is appropriate or not, and how the tasks of this exam could be improved. Moreover, this article can be useful for Informatics teachers as well, as they get a comprehensive picture of the programming task of the final exam, so they can prepare their students better.

Keywords: programming, computer science education, secondary education, programming theorems

MSC: 68-W

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