

Problem solving and interrelation of concepts in teaching algorithmic thinking and programming

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Abstract

Developing problem-solving thinking not should be only the task of mathematics. It should be also the task of informatics. Students problem-solving abilities can be greatly enhanced by solving consciously structured, interrelated programming tasks. To create a well-structured series of tasks it is necessary, that we understand and become aware of our own system of concepts. As a teacher, we need to be aware of the concepts that are really important and how they relate to each other. Our aim is to help our students to develop connections and correspondences within their concepts that will facilitate the integration of new concepts into their concept map. In this paper we deal with this concept map and the issues that arise with it.

Keywords: teaching informatics, teaching informatics, problem solving, algorithmic thinking, concept map, concept system, beginning of teaching programming.