
Zbl 0865.68049

Shen, A.

Algorithms and programming. Problems and solutions. (English)

Boston: Birkhäuser. viii, 217 p. DM 78.00; öS 570.00; sFr 68.00 (1997). ISBN 0-8176-3847-4

The aim of this textbook is to present a set of problems from many fields of theory of algorithms. The degree of complication varies. The book starts from very simple problems dealing with fundamental concepts of programming (variables, expressions, assignments). Then there are many standard problems—including some difficult ones—concerning combinatorics, graphs and some branches of theoretical computer science. Problems are usually provided with solutions, answers or hints. Almost every solution is supposed to have a computer program form. All the programs in the book are written in Pascal. As the author claims, the book is addressed both to the ambitious students and to the instructors looking for interesting problems. In our opinion this book fulfils this task perfectly, especially if the reader has good mathematical background.

We would like to correct the following typographical error: the item 8 in *Further reading* section is to be titled *Kombinatoryka dla programistów..*

J Żurawiecki and P. Właż (Lublin)

Keywords : theory of algorithms; combinatorics; graphs

Classification :

*68W10 Parallel algorithms

68-02 Research monographs (computer science)

68R10 Graph theory in connection with computer science

68N99 Software