Book List for Algorithms and Data Structures
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1 General Books


2 Implementations and Software Libraries


3 Graph Algorithms


4 Algorithms on Strings


5 Approximation Algorithms


6 Integer and Combinatorial Optimization


7 Parallel and Distributed Algorithms


8 Computational Geometry


9 Randomized Algorithms


10 Computer Algebra


11 Analysis of Algorithms and Mathematical Foundations


The previous list represents what we believe in the vast majority of cases to be the most important for each respective data structure. For all readers we recommend that before looking at any algorithm you quickly look at Appendix E which contains a table listing the various symbols used within our algorithms and their meaning. One keyword that we would like to point out here is yield.

The project is named Data Structures and Algorithms (DSA) and can be found at http://codeplex.com/dsa. 1.8 Final messages. We have just a few final messages to the reader that we hope you digest before you embark on reading this book.

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List some linear and non-linear data structures stating the application area where they will be used. (ii) State the merits and demerits of static and dynamic memory allocation techniques. (b) (i) Define tail recursion by giving suitable example. (ii) How two dimensional arrays are represented in memory?