



Program Development by Stepwise Refinement

3. The 8-Queens Problem and an Approach to Its Solution¹

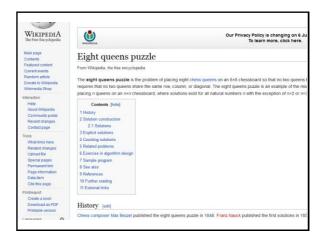
Given are an 8 ×

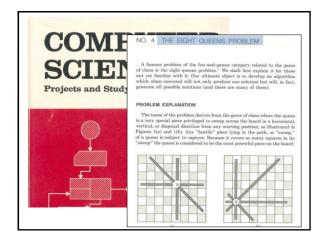
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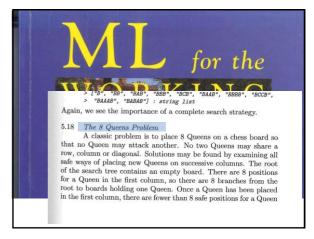
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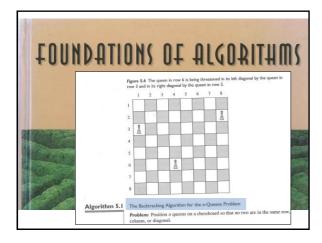
Given are an 8×8 chessboard and 8 queens which are hostile to each other. Find a position for each queen (a configuration) such that no queen may be taken by any other queen (i.e. such that every row, column, and diagonal contains at most one queen).

Communications of the ACM -1971, nr 4



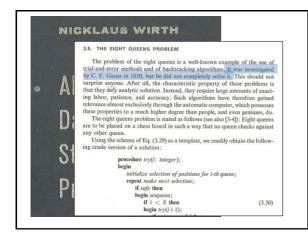


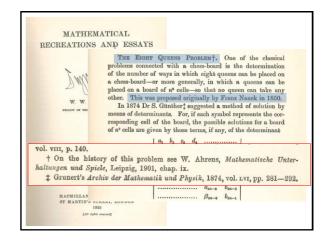


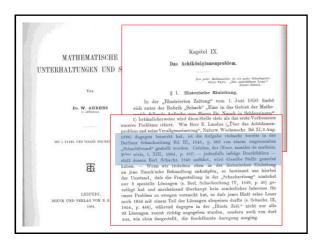


STRUCTURED PROGRAMMING O.J. DAHL Universites 1 Onlo. Matematiks Institut. Blindern, Onlo. Norway E. W. DUKSTRA 17. The Problem Of The Eight Queens This last section is adapted from my lecture notes "Introduction into the Art of Programming". I owe the example—as many other good ones—to Niklaus Wirth. This last section is added for two reasons. Firstly, it is a second effort to do more justice to the process of invention. (As a matter of fact I start where the student is not familiar with the concept

of backtracking and aim at discovering it as I go along.)







GAUSS AND THE EIGHT
QUEENS PROBLEM: A STUDY IN
MINIATURE OF THE PROPAGATION OF HISTORICAL ERROR

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Summaries

An 1874 article by J. W. L. Glaisher asserted that the eight queens problem of recreational mathematics originated in 1850 with Franz Nauck proposing it to Gauss, who then gave the complete

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til og med dette:

