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presents some common problems in mathematics and how they can be investigated using the mathematica computer system problems and exercises include the calendar sequences the n queens problems digital computing blackjack and computing pi this book is for those that would like to see how mathematica is applied to real world mathematics

programming environments as the name suggests are intended to provide a unified extensive range of capabilities for a person wishing to solve a problem using a computer in this particular proceedings volume the problem considered is a high level scientific computation in other words a scientific problem whose solution usually requires sophisticated computing techniques and a large allocation of computing resources

these papers represent an amalgamation of cross disciplinary expertise spanning computer science and computational sciences the volume aims to bridge the gap between the research laboratory and the university classroom in this area and so stimulate an accelerated development

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