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the main goal of the two authors is to help undergraduate students understand the concepts and ideas of combinatorics an important realm of mathematics and to enable them to ultimately achieve excellence in this field this goal is accomplished by familiariz ing students with typical examples illustrating central mathematical facts and by challenging students with a number of carefully selected problems it is essential that the student works through the exercises in order to build a bridge between ordinary high school permutation and combination exercises and more sophisticated intricate and abstract concepts and problems in undergraduate combinatorics the extensive discussions of the solutions are a key part of the learning process the concepts are not stacked at the beginning of each section in a blue box as in many undergraduate textbooks instead the key mathematical ideas are carefully worked into organized challenging and instructive examples the authors are proud of their strength their collection of beautiful problems which they have accumulated through years of work preparing students for the international math ematics olympiads and other competitions a good foundation in combinatorics is provided in the first six chapters of this book while most of the problems in the first six chapters are real counting problems it is in chapters seven and eight where readers are introduced to essay type proofs this is the place to develop significant problem solving experience and to learn when and how to use available skills to complete the proofs

the mathematical olympiad examinations covering the usa mathematical olympiad usamo and the international mathematical olympiad imo have been published annually since 1976 this is the fourth volume in that series the imo is a world mathematics competition for high school students that takes place each year in a different country students from all over the world participate in this competition these olympiad style exams consist of several challenging essay type problems although a correct and complete solution to an olympiad problem often requires deep analysis

and careful argument the problems require no more than a solid background in high school mathematics coupled with a dose of mathematical ingenuity there are helpful hints provided for each of the problems these hints often help lead the student to a solution of the problem complete solutions to each of the problems is also included and many of the problems are presented together with a collection of remarkable solutions developed by the examination committees contestants and experts during or after the contest for each problem with multiple solutions some common crucial results are presented at the beginning of these solutions

102 combinatorial problems consists of carefully selected problems that have been used in the training and testing of the usa international mathematical olympiad imo team key features provides in depth enrichment in the important areas of combinatorics by reorganizing and enhancing problem solving tactics and strategies topics include combinatorial arguments and identities generating functions graph theory recursive relations sums and products probability number theory polynomials theory of equations complex numbers in geometry algorithmic proofs combinatorial and advanced geometry functional equations and classical inequalities the book is systematically organized gradually building combinatorial skills and techniques and broadening the student s view of mathematics aside from its practical use in training teachers and students engaged in mathematical competitions it is a source of enrichment that is bound to stimulate interest in a variety of mathematical areas that are tangential to combinatorics

the mathematical olympiad examinations covering the usa mathematical olympiad usamo and the international mathematical olympiad imo have been published annually by the maa american mathematics competitions since 1976 this collection of excellent problems and beautiful solutions is a valuable companion for students who wish to develop their interest in mathematics

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collection of excellent problems and beautiful solutions is a valuable companion for students who wish to develop their interest in mathematics outside the school curriculum and to deepen their knowledge of mathematics

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this book captures some of p lya s excitement and vision its distinctive feature is the stress on the history of certain elementary chapters of science these can be a source of enjoyment and deeper understanding of mathematics even for beginners who have little or perhaps no knowledge of physics

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