

A row of five black square tiles is to have a number of its tiles replaced with coloured oblong tiles chosen from red (length two), green (length three), or blue (length four).

If red tiles are chosen there are exactly seven ways this can be done.



If green tiles are chosen there are three ways.



And if blue tiles are chosen there are two ways.



Assuming that colours cannot be mixed there are $7 + 3 + 2 = 12$ ways of replacing the black tiles in a row measuring five units in length.

How many different ways can the black tiles in a row measuring fifty units in length be replaced if colours cannot be mixed and at least one coloured tile must be used?

About Project Euler

David A. Cox



About Project Euler:

Learning Through Project Euler Part 1. the First 25 Problems of Project Euler with Programs in Pascal, C++ and Java Huy Xuan Nguyen, 2019-04-05 LEARNING THROUGH PROJECT EULER the first text to integrate the classical material of elementary number theory with important algorithmic methods such as divide and conquer greedy dynamic programming algebraic simplification and transformations This little book gives solutions for the first twenty five problems of the Project Euler The solutions include Problem Understanding Algorithm Programs in C Pascal and Java *Learning to Program* Steven Foote, 2014 Learning to Program will help students build a solid foundation in programming that can prepare them to achieve just about any programming goal Whether they want to become a professional software programmer learn how to more effectively communicate with programmers or are just curious about how programming works this book is a great first step in helping to get there

100 Years of Math Milestones: The Pi Mu Epsilon Centennial Collection Stephan Ramon Garcia, Steven J. Miller, 2019-06-13 This book is an outgrowth of a collection of 100 problems chosen to celebrate the 100th anniversary of the undergraduate math honor society Pi Mu Epsilon Each chapter describes a problem or event the progress made and connections to entries from other years or other parts of mathematics In places some knowledge of analysis or algebra number theory or probability will be helpful Put together these problems will be appealing and accessible to energetic and enthusiastic math majors and aficionados of all stripes Stephan Ramon Garcia is WM Keck Distinguished Service Professor and professor of mathematics at Pomona College He is the author of four books and over eighty research articles in operator theory complex analysis matrix analysis number theory discrete geometry and other fields He has coauthored dozens of articles with students including one that appeared in *The Best Writing on Mathematics* 2015 He is on the editorial boards of *Notices of the AMS* *Proceedings of the AMS* *American Mathematical Monthly* *Involve* and *Annals of Functional Analysis* He received four NSF research grants as principal investigator and five teaching awards from three different institutions He is a fellow of the American Mathematical Society and was the inaugural recipient of the Society's Dolciani Prize for Excellence in Research Steven J Miller is professor of mathematics at Williams College and a visiting assistant professor at Carnegie Mellon University He has published five books and over one hundred research papers most with students in accounting computer science economics geophysics marketing mathematics operations research physics sabermetrics and statistics He has served on numerous editorial boards including the *Journal of Number Theory* *Notices of the AMS* and the *Pi Mu Epsilon Journal* He is active in enrichment and supplemental curricular initiatives for elementary and secondary mathematics from the Teachers as Scholars Program and VCTAL Value of Computational Thinking Across Grade Levels to numerous math camps the Eureka Program HCSSiM the Mathematics League International Summer Program PROMYS and the Ross Program He is a fellow of the American Mathematical Society an at large senator for Phi Beta Kappa and a member of the Mount Greylock Regional School Committee where he sees firsthand the challenges of

applying mathematics *Whistleblower* Susan Fowler,2020-02-18 A powerful illustration of the obstacles our society continues to throw up in the paths of ambitious young women The New York Times Book Review Important empowering Gayle King CBS This Morning That Fowler became a whistle blower and a pioneer of a social movement almost seems inevitable once you get to know her Uber should have seen her coming San Francisco Chronicle Named a Best Book of 2020 by NPR Susan Fowler was just twenty five years old when her blog post describing the sexual harassment and retaliation she d experienced at Uber riveted the nation Her post would eventually lead to the ousting of Uber s powerful CEO but its ripples extended far beyond that as her courageous choice to attach her name to the post inspired other women to speak publicly about their experiences In the year that followed an unprecedented number of women came forward and Fowler was recognized by Time as one of the Silence Breakers who ignited the MeToo movement Here she shares her full story a story of extraordinary determination and resilience that reveals what it takes and what it means to be a whistleblower Long before she arrived at Uber Fowler s life had been defined by her refusal to accept her circumstances She propelled herself from an impoverished childhood with little formal education to the Ivy League and then to a coveted position at one of the most valuable companies in the history of Silicon Valley Each time she was mistreated she fought back or found a way to reinvent herself all she wanted was the opportunity to define her own dreams and work to achieve them But when she discovered Uber s pervasive culture of sexism racism harassment and abuse and that the company would do nothing about it she knew she had to speak out no matter what it cost her *Whistleblower* takes us deep inside this shockingly toxic workplace and reveals new details about the aftermath of the blog post in which Fowler was investigated and followed hacked and threatened to the point that she feared for her life But even as it illuminates how the deck is stacked in favor of the status quo Fowler s story serves as a crucial reminder that we can take our power back Both moving personal narrative and rallying cry *Whistleblower* urges us to be the heroes of our own stories and to keep fighting for a more just and equitable world

Trends and Innovations in Information Systems and Technologies Álvaro Rocha,Hojjat Adeli,Luís Paulo Reis,Sandra Costanzo,Irena Orovic,Fernando Moreira,2020-05-17 This book gathers selected papers presented at the 2020 World Conference on Information Systems and Technologies WorldCIST 20 held in Budva Montenegro from April 7 to 10 2020 WorldCIST provides a global forum for researchers and practitioners to present and discuss recent results and innovations current trends professional experiences with and challenges regarding various aspects of modern information systems and technologies The main topics covered are A Information and Knowledge Management B Organizational Models and Information Systems C Software and Systems Modeling D Software Systems Architectures Applications and Tools E Multimedia Systems and Applications F Computer Networks Mobility and Pervasive Systems G Intelligent and Decision Support Systems H Big Data Analytics and Applications I Human Computer Interaction J Ethics Computers K Health Informatics L Information Technologies in Education M Information Technologies in Radiocommunications and N

Technologies for Biomedical Applications Whistleblower Susan J. Fowler,2020 In 2017 twenty five year old Susan Fowler published a blog post detailing the sexual harassment and retaliation she d experienced as an entry level engineer at Uber The post went viral leading not only to the ouster of Uber s CEO and twenty other employees but starting a bonfire on creepy sexual behaviour in Silicon Valley that spread to Hollywood and engulfed Harvey Weinstein Maureen Dowd The New York Times The moving story of a woman s lifelong fight to do what she loves despite repeatedly being told no or treated as less than Whistleblower is both a riveting read and a source of inspiration for anyone seeking to stand up against inequality in their own workplace **Math Hacks for Scratch** Michael Mays,2024-10-15 Push Scratch programming to the limits as you explore primes Fibonacci numbers Pascal s triangle and other mathematical curiosities through hands on coding projects If you re a student looking for project ideas to practice your math and coding skills or a Scratch enthusiast just looking for something different this is the book for you Discover the exciting intersection of mathematics and programming with Math Hacks for Scratch This book is perfect for kids educators and programming enthusiasts eager to learn or teach math through fun hands on projects using Scratch the popular visual programming language You ll see how a little bit of planning combined with the right mathematical or coding tricks can make complex calculations doable These are the hacks mentioned in the title You ll write programs to speed up factoring big numbers sort out a pizza party with Pascal s triangle explore Fibonacci s famous sequence for counting rabbits use cryptography to create unbreakable secret codes and so much more Inside you ll find Step by Step Projects Learn how to create interactive games animations and simulations that bring math concepts to life Convert between binary and decimal to see how computers keep track of numbers Make sense of patterns in lists sequences and arrays Encode cryptograms unscramble secret messages and crack the Caesar cipher Real World Applications See how math is used every day to calculate probabilities in games and create dynamic graphics Expert Guidance Benefit from the insights of author Michael Mays a seasoned math educator with a PhD in mathematics and a 40 year teaching career Accessible Learning Ideal for both beginners and experienced programmers this book offers clear explanations and practical examples that make learning fun and easy Whether you re a beginning coder wanting to enhance your Scratch skills a teacher looking to inspire students or a parent supporting your child s education Math Hacks for Scratch provides the tools to turn coding projects into math adventures **New Developments in Electronic Publishing of Mathematics** Hans Becker,2005 **Primes of the Form $X^2 + Ny^2$** David A. Cox,1989 Modern number theory began with the work of Euler and Gauss to understand and extend the many unsolved questions left behind by Fermat In the course of their investigations they uncovered new phenomena in need of explanation which over time led to the discovery of class field theory and its intimate connection with complex multiplication While most texts concentrate on only the elementary or advanced aspects of this story Primes of the Form $x^2 + ny^2$ begins with Fermat and explains how his work ultimately gave birth to quadratic reciprocity and the genus theory of quadratic forms Further the book shows how the results of Euler and Gauss

can be fully understood only in the context of class field theory Finally in order to bring class field theory down to earth the book explores some of the magnificent formulas of complex multiplication The central theme of the book is the story of which primes p can be expressed in the form $x^2 + ny^2$ An incomplete answer is given using quadratic forms A better though abstract answer comes from class field theory and finally a concrete answer is provided by complex multiplication Along the way the reader is introduced to some wonderful number theory Numerous exercises and examples are included The book is written to be enjoyed by readers with modest mathematical backgrounds Chapter 1 uses basic number theory and abstract algebra while chapters 2 and 3 require Galois theory and complex analysis respectively

Pioneers in Mathematics Michael John Bradley, 2006 *Comparison of Sequential and Parallel Architected Run Times for Project Euler Problems* Andrew Bradford McLauthlin, 2015 The Proceedings of the Fourth Conference on Hypercubes, Concurrent Computers, and Applications: Software, applications, 1989 Contributions to the Prehistory of Southeastern Utah, 1982

Calculus Gems George Finlay Simmons, 1992 The first half of *Calculus Gems* is a biographical history of mathematics from the earliest times to the late nineteenth century The author shows how science and mathematics in particular is something that people do and not merely a mass of observed data and abstract theory He demonstrates the profound connections that join mathematics to the history of philosophy and also to the broader intellectual and social history of Western civilization The second half contains nuggets that Simmons has collected from number theory geometry science etc which he has used in his mathematics classes meaning that it can be used as a supplement in a Calculus course or a History of Mathematics course The overall aim of this book is to answer the question What is mathematics for and with its inevitable answer To delight the mind and help us understand the world

Pacific Symposium on Biocomputing, 2002 *Great Soviet Encyclopedia* Aleksandr Mikhaïlovich Prokhorov, 1973 *Mechanical Engineering News*, 1992 *Calculus* David A. Smith, Lawrence C. Moore, 1996-12 Discrete Mathematics Paul F. Dierker, William L. Voxman, 1986 *Particle Dynamics on Fiber Bundles* Giuseppe Marmo, C. Rubano, 1988

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