ALGORITHMIC THINKING

A Problem-Based Introduction

by Daniel Zingaro

no starch
press

San Francisco

ISBN-13: 978-1-7185-0080-8 (print)
ISBN-13: 978-1-7185-0081-5 (ebook)

Publisher: Bill Pollock
Executive Editor: Barbara Yien
Production Editor: Kassie Andreadis
Developmental Editor: Alex Freed
Interior Design: Octopod Studios
Cover Illustration: Rob Gale
Technical Reviewer: Larry Yueli Zhang
Copyeditor: David Couzens
Proofreader: James Fraleigh

For information on book distributors or translations, please contact No Starch Press, Inc. directly:
No Starch Press, Inc.
245 8th Street, San Francisco, CA 94103
phone: 1-415-863-9900; info@nostarch.com
www.nostarch.com

Library of Congress Cataloging-in-Publication Data

Names: Zingaro, Daniel, author.
Title: Algorithmic thinking : a problem-based introduction / by Daniel Zingaro.
Description: San Francisco : No Starch Press, [2021] | Includes bibliographical references and index.
Identifiers: LCCN 2020031510 (print) | LCCN 2020031511 (ebook) | ISBN 9781718500808 (paperback) | ISBN 1718500807 (paperback) | ISBN 9781718500815 (ebook)
Subjects: LCSH: Computer algorithms–Problems, exercises, etc. | Computer programming–Problems, exercises, etc.
Classification: LCC QA76.9.A43 Z56 2020 (print) | LCC QA76.9.A43 (ebook) | DDC 005.13–dc23
LC record available at https://lccn.loc.gov/2020031510
LC ebook record available at https://lccn.loc.gov/2020031511

To Doyali

About the Author

Dr. Daniel Zingaro is an assistant teaching professor of computer science and award-winning teacher at the University of Toronto. His main area of research is computer science education research, where he studies how students learn (and sometimes don't learn) computer science material.

About the Technical Reviewer

Larry Yueli Zhang is an Assistant Professor, Teaching Stream of Computer Science at the University of Toronto Mississauga. His teaching and research interests include algorithms, data structures, operating systems, computer networks, social networks, and computing education. He has been in the program committees of ACM SIGCSE, ACM ITiCSE, and WCCCE. He holds a PhD in Computer Science from the University of Toronto.

BRIEF CONTENTS

CONTENTS IN DETAIL