

Code.org Computer Science Discoveries Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

Copyright © 2026 by Examzify - A Kaluba Technologies Inc. product.

ALL RIGHTS RESERVED.

No part of this book may be reproduced or transferred in any form or by any means, graphic, electronic, or mechanical, including photocopying, recording, web distribution, taping, or by any information storage retrieval system, without the written permission of the author.

Notice: Examzify makes every reasonable effort to obtain accurate, complete, and timely information about this product from reliable sources.

SAMPLE

Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	5
Answers	8
Explanations	10
Next Steps	15

SAMPLE

Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

SAMPLE

- 1. Which term refers to the collected information about an individual across multiple websites on the Internet?**
 - A. Digital Footprint**
 - B. Citation**
 - C. Copyright**
 - D. Creative Commons**

- 2. Which term describes a continuous signal?**
 - A. Digital**
 - B. Analog**
 - C. For Loop**
 - D. Parameter**

- 3. What is Hypertext Markup Language, a language used to create web pages?**
 - A. HTML**
 - B. Website Content**
 - C. HTML Tag**
 - D. Output**

- 4. Which term refers to a single functional element of software, such as a new capability?**
 - A. Feature**
 - B. Decode**
 - C. ASCII**
 - D. Binary**

- 5. Which term is a title or summary for a document or section of a document?**
 - A. Website**
 - B. Heading**
 - C. HTML**
 - D. Algorithm**

- 6. The special set of characters that indicates the start and end of an HTML element and that element's type**
- A. HTML Element**
 - B. HTML**
 - C. Website Content**
 - D. HTML Tag**
- 7. Which term refers to an early, test version of a product used to validate ideas before full-scale production?**
- A. Final product**
 - B. Prototype**
 - C. Diagram**
 - D. Circuit**
- 8. Which of the following best describes a prototype?**
- A. It is the final product**
 - B. It is a plan for manufacturing**
 - C. It is an early model used to test ideas**
 - D. It is a marketing sample**
- 9. The visual elements of a program through which a user controls or communicates with the application.**
- A. User Interface**
 - B. User**
 - C. Usability**
 - D. Critique**
- 10. Any character that shows up as a blank space on the screen, such as a space, a tab, or a new line; helps separate different parts of the document to make it easier to read.**
- A. Whitespace**
 - B. Bug**
 - C. Comment**
 - D. Hyperlink**

Answers

SAMPLE

1. A
2. B
3. A
4. A
5. B
6. D
7. B
8. C
9. A
10. A

SAMPLE

Explanations

SAMPLE

1. Which term refers to the collected information about an individual across multiple websites on the Internet?

A. Digital Footprint

B. Citation

C. Copyright

D. Creative Commons

Understanding how information about you accumulates online is what this question focuses on. The term that describes the collected information about an individual across multiple websites on the Internet is a digital footprint. It includes what you post yourself—updates, comments, photos, and profile details—as well as data that sites collect about you through your actions, such as pages you visit, searches, and ads you click. This footprint grows as you interact with more sites and services, and it can influence how others see you or how services tailor experiences. You can manage it by being mindful of what you share, adjusting privacy settings, and periodically checking what information is linked to your accounts. A citation refers to sources used in writing and is not about a person’s online traces; copyright concerns legal rights over creative works, and Creative Commons is a licensing framework for sharing those works.

2. Which term describes a continuous signal?

A. Digital

B. Analog

C. For Loop

D. Parameter

A continuous signal is defined at every moment in time and can vary smoothly without jumps. The term that describes this kind of signal is analog, because analog signals are continuous in time (and typically in amplitude) so their values can change gradually. Digital signals, on the other hand, are defined only at specific moments and take on a limited set of discrete levels, which is why they’re not continuous. Real-world examples of analog signals include sound waves in the air or voltage levels that change smoothly over time. In contrast, terms like For Loop or Parameter are programming concepts and don’t describe how a signal changes over time.

3. What is Hypertext Markup Language, a language used to create web pages?

A. HTML

B. Website Content

C. HTML Tag

D. Output

Hypertext Markup Language is the language used to create web pages. It defines the structure of a page by using tags to mark up content—things like headings, paragraphs, images, and links. The browser reads those HTML tags and renders the page so you can see and interact with it. The term “Hypertext” also signals the ability to link to other pages or resources. It’s not the actual Website Content, which is the text and media you place on a page, nor is it an HTML Tag, which is just a single markup instruction like `<p>` or `<h1>`. It’s not the Output, which is the result you see after the browser renders the page. So the best answer is HTML.

4. Which term refers to a single functional element of software, such as a new capability?

- A. Feature**
- B. Decode**
- C. ASCII**
- D. Binary**

A single functional element of software is called a feature. In software development, a feature is a discrete capability that a product provides to users—something you can design, implement, test, and release on its own, such as a new search option or a dark mode toggle. Features are user-facing powers of the software, representing tangible additions to what the product can do. The other terms refer to things that aren't user-facing capabilities: to decode means to convert encoded data into readable information, ASCII is a character encoding system, and binary is a base-2 representation of data or a binary file format. So the best term for a standalone piece of functionality is feature.

5. Which term is a title or summary for a document or section of a document?

- A. Website**
- B. Heading**
- C. HTML**
- D. Algorithm**

A heading is a title or short summary for a document or section. It tells you what the upcoming text is about and helps readers quickly scan the page to find the part they want. Headings are usually set apart with larger or bolder text to stand out, and they also aid accessibility by helping screen readers navigate the structure of a page. The other terms refer to different things: a website is a collection of web pages, HTML is the language used to build and structure those pages, and an algorithm is a step-by-step procedure for solving a problem. So the best choice is heading.

6. The special set of characters that indicates the start and end of an HTML element and that element's type

- A. HTML Element**
- B. HTML**
- C. Website Content**
- D. HTML Tag**

Tags are the markers in HTML that show where an element begins and ends and also reveal what kind of element it is. A tag looks like `<div>` to start and `</div>` to end, and the name inside the tag (`div`, `p`, `h1`, etc.) tells you the element's type. For example, in `<p>Hello</p>`, the opening tag `<p>` starts the paragraph element, and `</p>` ends it. So the special set of characters that indicates both the start and end and the element's type is the HTML tag. The other options don't fit: an HTML element is the actual item on the page, HTML is the language, and website content is what appears on the page.

7. Which term refers to an early, test version of a product used to validate ideas before full-scale production?

- A. Final product**
- B. Prototype**
- C. Diagram**
- D. Circuit**

Making an early, test version of a product is called a prototype. Prototypes let you try out ideas, see how things might work in the real world, and gather feedback to improve the design before investing in full-scale production. They help you identify problems and validate assumptions without building the final product. The final product is what you release after testing and refinement. A diagram is just a drawn plan or schematic to communicate structure, not a working version. A circuit is a specific arrangement of electrical components, and while electronics can be prototyped, the term itself refers to the test model, not the concept of an early version.

8. Which of the following best describes a prototype?

- A. It is the final product**
- B. It is a plan for manufacturing**
- C. It is an early model used to test ideas**
- D. It is a marketing sample**

A prototype is an early version of a product built to try out ideas and learn what works before making the final version. By testing the model, you can see how the design functions, how it feels in use, and where problems show up, which guides improvements and iterations. That makes the description “an early model used to test ideas” the best fit. It isn’t the final product, so it’s not something you’d sell or deliver as the finished item. It’s not a plan for manufacturing, which would describe how to produce something, not a physical or digital test version. And it isn’t a marketing sample, which is meant to show or promote a product rather than test its design and function.

9. The visual elements of a program through which a user controls or communicates with the application.

- A. User Interface**
- B. User**
- C. Usability**
- D. Critique**

The user interface is the set of visual elements that let people interact with the program. It includes buttons, menus, icons, text fields, sliders, and the overall layout you see on the screen. These elements serve as the controls and the means of communication between the user and the application, translating your actions into commands and showing the results back to you. The other terms refer to different ideas: the user is the person using the app, usability is how easy and efficient it is to use, and critique is an evaluation of the design. So the description in the question matches the interface that users interact with visually.

10. Any character that shows up as a blank space on the screen, such as a space, a tab, or a new line; helps separate different parts of the document to make it easier to read.

A. Whitespace

B. Bug

C. Comment

D. Hyperlink

Whitespace refers to the blank characters that separate parts of text or code—spaces, tabs, and newline characters. They show up as blank space on the screen but aren't visible symbols. This separation helps readability and structure, making it easier to scan and understand the document or program. In programming, whitespace can also define how code is grouped or formatted; for example, Python uses indentation (a kind of whitespace) to define blocks of code. This description fits whitespace exactly: blank-space characters used to separate elements to improve readability. A bug would be an error in the program, a comment is text the computer ignores, and a hyperlink is a clickable link.

SAMPLE

Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://codeorgcompscdiscoveries.examzify.com>

We wish you the very best on your exam journey. You've got this!

SAMPLE