# Introduction to Programming with C++ 4th Edition Diane Zak Test Bank

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# **ch02**

/ <b>False</b> ate wi	e hether the statement is true or false.
 1.	A computer program is considered to be a solution to a problem, but one that is implemented with a computer.
 2.	The purpose of analyzing a problem is to determine the goal of solving the problem, and the items that are needed to achieve that goal.
 3.	When analyzing a problem, you always search first for the input, and then for the output.
 4.	When planning the algorithm, you must create both a flowchart and pseudocode.
 5.	A problem can have more than one solution.
 6.	Though you may have solved a problem similar to the one you are solving now, you should avoid using that problem's algorithm to solve the current problem.
 7.	You can desk-check an algorithm using its pseudocode but not its flowchart.
 8.	Most algorithms end with an instruction to print, display, or store the output items.
 9.	Pseudocode is a standardized language for writing algorithms.
 10.	It is a good practice to be consistent when referring to the input, output, and processing items in the IPO chart.
 11.	The final step in the problem-solving process is to implement the program.
 12.	As a programmer, it is important to distinguish between information that truly is missing in the problem specification, and information that simply is not stated, explicitly, in the problem specification.
 13.	After the instruction to enter the input items, you usually provide instructions to process those items, typically by performing some calculations on them, to achieve the problem's required results.
 14.	Let's say you have not solved a similar problem to the one you are working on and you cannot find a portion of an existing algorithm that you can use. You can reasonably conclude that not enough information is present in the problem specification for you to solve it.
 15.	You can use a desk-check table to help you desk-check an algorithm. The table should contain one column for each input item shown in the IPO chart, but, to avoid confusion, should not contain any columns for the output items.
 16.	The term "data-checking" means that you use pencil and paper, along with sample data, to walk through each of the steps in the algorithm manually, just as if you were the computer.
 17.	When the programmer is satisfied that the algorithm is correct, he or she then translates the algorithm into a language that the computer can understand. Programmers refer to this step as tracing the algorithm.
 18.	Most algorithms begin with an instruction that enters the input items into the computer.
 19.	During the planning step, programmers write the steps that will transform the input into the output.
 20.	As with the output, the input typically is stated as nouns and adjectives in the problem specification.
 21.	Before you begin the desk-check, you first choose a set of sample data for the output values.

	22.	Pseudocode is a tool programmers use to help	then	n test an algorithm.					
	23.	Algorithms use standardized symbols to show the steps the computer needs to take to accomplish the program's goal.							
	24.	After analyzing the problem, you start planning an algorithm.							
	25.	Asymmetric data is data that the program is no	t ex	pecting the user to enter.					
<b>Multi</b> Identij	-	Choice choice that best completes the statement or ans	wer	s the question.					
	26.	The first step in solving a familiar problem is to a. minimize		the problem. deconstruct					
		b. analyze		transform					
	27.	Which of the following is the correct order of ta. review, plan, implement, modify, evaluate b. review, plan, evaluate, implement, modify c. plan, review, implement, evaluate, modify d. plan, implement, evaluate, review, modify	he p	problem solving process, from the first to the last?					
	28	A coded algorithm is called a							
	20.	a. calculator	c.	solution					
		b. program	d.	processor					
	29.	Programmers refer to the goal as the, and							
		a. input, output		growth, seed					
	20	b. output, input	a.	seed, growth					
	30.	<ul> <li>An algorithm is</li> <li>a. a group of unrelated problems joined toget</li> <li>b. a complete analysis of the problem and the</li> <li>c. the necessary input for solving a problem</li> <li>d. a set of step-by-step instructions that transf</li> </ul>	pos	ssible solutions					
	31.			the algorithm uses when transforming the input into the					
		output. a. temp		processing					
		b. variable		passover					
	32.	In programming terms, a numbered list of steps a. pseudocode b. code	c.	called desk-checking precode					
	33.	A(n) uses symbols to show the steps the o	com	puter needs to take to accomplish the program's goal.					
		a. algorithm		diagram					
		b. hierarchy chart		flowchart					
	34.	The different symbols in a flowchart are conne		l with lines called flowlines					
		<ul><li>a. connectors</li><li>b. markers</li></ul>		pointers					
	35.	The oval symbol in a flowchart is called the		•					
		a. start/stop		intermediary					
		b. input/output		terminal					
	36.	The rectangles in a flowchart are called s	ymb	ools.					
		a. intermediary		process					
		b. terminal	d.	space					

 37.	You analyze the problem to determine the goa	lofs	solving the problem, that is, the
	a. input	c.	answer
	b. algorithm	d.	output
 38.	The input and output typically are stated as	a	nd in the problem specification.
	a. nouns, adjectives		adverbs, nouns
	b. verbs, adjectives	d.	adverbs, verbs
39.	Programmers use a(n) chart to organize	and	summarize the results of a problem analysis.
	a. IPO		I/O
	b. hierarchy		PPO
40.	The step is the most difficult of the probl		
 10.	specifications contain either too much informa		
	a. analysis		review
	b. plan		implement
41.	-		ach direction on paper in your own words is an example
 41.	of	vii Ca	den direction on paper in your own words is an example
	a. a flowchart	C	an IPO chart
	b. pseudocode		an input
42	•		•
 42.	The input/output symbol in a flowchart is represent a. circle		· ·
			triangle parallelogram
40	b. square		
 43.	data is data that the programmer is expec	_	
	a. Invalid		Symmetric
	b. Valid		Asymmetric
 44.	During the step, programmers write the s	_	
	a. modifying		review
	b. planning	d.	evaluate
 45.	refers to translating the algorithm into a l	_	-
	a. Compiling		Coding
	b. Loading	d.	Debugging
 46.	Before you begin the desk-check, you first cho	ose	a set of sample data for the values.
	a. input	c.	terminal
	b. processing	d.	output
47.	You can draw an IPO chart by hand or by usin	g the	e feature in a Word processor.
	a. IPO	_	-
	b. chart	d.	draw
48.	In response to the question "What is your hour	·lv ra	ate", a user of a program enters \$10,000. A good
 	program should treat this as	1) 10	or , a door of a program enters \$10,0000 11 good
	a. valid data	c.	unreasonable data
	b. invalid data	d.	
49.			need to know to print, display, or store the output
 47.	items?" will help you determine the	Juici	need to know to print, display, of store the output
	•	C	processing
	a. input b. output	d.	
50	-		
 50.			se pencil and paper, along with sample data, to walk
	through each of the steps in an algorithm manu		
	a. pencil pushing		table-top checking
	b. hand-verification	a.	hand-tracing

# ch02 Answer Section

### TRUE/FALSE

1.	ANS:	T	PTS:	1	REF:	39
2.	ANS:	T	PTS:	1	REF:	40
3.	ANS:	F	PTS:	1	REF:	40
4.	ANS:	F	PTS:	1	REF:	46
5.	ANS:	T	PTS:	1	REF:	46
6.	ANS:	F	PTS:	1	REF:	46
7.	ANS:	F	PTS:	1	REF:	49
8.	ANS:	T	PTS:	1	REF:	44
9.	ANS:	F	PTS:	1	REF:	45
10.	ANS:	T	PTS:	1	REF:	45
11.	ANS:	F	PTS:	1	REF:	40
12.	ANS:	T	PTS:	1	REF:	42
13.	ANS:	T	PTS:	1	REF:	43
14.	ANS:	F	PTS:	1	REF:	48
15.	ANS:	F	PTS:	1	REF:	49
16.	ANS:	F	PTS:	1	REF:	40
17.	ANS:	F	PTS:	1	REF:	40
18.	ANS:	T	PTS:	1	REF:	43
19.	ANS:	T	PTS:	1	REF:	54
20.	ANS:	T	PTS:	1	REF:	41
21.	ANS:	F	PTS:	1	REF:	49
22.	ANS:	F	PTS:	1	REF:	45
23.	ANS:	F	PTS:	1	REF:	45
24.	ANS:	T	PTS:	1	REF:	43
25.	ANS:	F	PTS:	1	REF:	51

# MULTIPLE CHOICE

26.	ANS:	В	PTS:	1	REF:	38
27.	ANS:	C	PTS:	1	REF:	39
28.	ANS:	В	PTS:	1	REF:	40
29.	ANS:	В	PTS:	1	REF:	40
30.	ANS:	D	PTS:	1	REF:	43
31.	ANS:	C	PTS:	1	REF:	44
32.	ANS:	A	PTS:	1	REF:	45
33.	ANS:	D	PTS:	1	REF:	45
34.	ANS:	C	PTS:	1	REF:	46
35.	ANS:	A	PTS:	1	REF:	46
36.	ANS:	C	PTS:	1	REF:	46
37.	ANS:	D	PTS:	1	REF:	40
38.	ANS:	A	PTS:	1	REF:	41

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39.	ANS:	A	PTS:	1	REF:	41
40.	ANS:	A	PTS:	1	REF:	42
41.	ANS:	В	PTS:	1	REF:	45
42.	ANS:	D	PTS:	1	REF:	46
43.	ANS:	В	PTS:	1	REF:	51
44.	ANS:	В	PTS:	1	REF:	54
45.	ANS:	C	PTS:	1	REF:	54
46.	ANS:	A	PTS:	1	REF:	49
47.	ANS:	C	PTS:	1	REF:	41
48.	ANS:	В	PTS:	1	REF:	51
49.	ANS:	A	PTS:	1	REF:	41
50.	ANS:	D	PTS:	1	REF:	40