Problem Solving and Program Design in

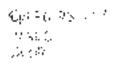
FIFTH EDITION

Jeri R. Hanly, Luyula College
Effiot B. Koffman, Temple University



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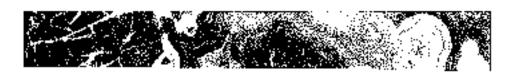


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PREFACE

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CONTENTS

1.	Overview of Computers and Programming	i
11	Biograms, Council new Theorytic No. 2	
12	Computer Presidence Science	
13	Compage Software, 13	
14	the sufficient besidenced Multiput 71	
15	Appropring the Schower Development Method 15	
	Cost Suith Conseiling Meet to Obscieber, 25	
	Chapter Renew 25	
Z,	Overview of C	33
2 6	Clanguage Demons Re	
12	variable the laratime and Bulk Agos, 41	
2.3	Encourble State vicors (45)	
1.4	Decreal From of a Ci-Doxyano Po	
2.5	Authoreus Sygressions, 58	
	насельстр Тимим при Собство в Союзно	
2.6	Formationg (Autobook in Program) Octyon, 72	
37	katrius rege Mitters, Belick Musik, Janut Delga, aktr. 26	
2.8	Columbia Programming Eners, 80	
	Chapter law rev. 107	
3.	Top-Down Design with Functions	₽5
3.1	holding Doy are hor factors observation 30	
	Case Stricty, Gradier, the area and Circumstaterate of a Circle, 97	
	case body is omening the Verget of a Bugh of the Awarer, 100	
3.2	Library Functions, 109	
1.7	ap-Creat Design and five their Charts, 117	
	Case Stocks, Grawing Streets Diagnacies 1102	

3.4 3.5 3.6	000,1005 Sharen Arguments, 114 Park Corn With Jigan Arguments, 125 S 2000 Se Diagramming Corns, 125	
	Chapter through 126	
4.	Selection Structures of and switch Statements	145
4.1	Curer4 Moscapa, 147	
4.2	Coldinary 147	
4.3	Part Stateson Copyri	
44	d State penetricated Support Alarements, 112	
4.5	Les rech Sign in Algorithm (16%)	
	Course of any retrieve Bill Analysis, 1846	
4.6	nther fighter Sovery 176	
	Case Straig 1990e and valle Connectation Sequipment of 177	
4.7	Morest (Superplat, wall Mylade Avertaine)	
	Likering 191	
4.8	00 9800 (Ciliano) 130	
4.9	Солики Розрами од 6. од 196	
	Chapter Review (11)	
S .	Repetition and Loop Statements	209
5.1	Rejection of Programs, 210	
5.2	Contract topps you do, while Statement, 712	
5.5	COMPONION A SUM an a moviment in a Copy (216)	
5.4	The for Movement 322	
7.5	- orani oralit, epi. 231	
5.6	Macrit Hage 1215	
5.7	Mested Jocpy 245	
5.B	Florish shift (cryst-pa) god Fygy-Contin ted	
	100pt 250	
5.9	Prouton Vilking Reprojed (25)	
	Cate State Collecting Any Alexand April April 254	
5.10	Here the interior grand Text Programs (201)	
3.11	CONTROL Promonners; Lingus 204	
	Chapter Brosser 1966	

		Compres	TY
6.	Medular Programming		279
5.1	Functions with finale Company payments (1789)		
67	 MidSple Calls tells Function vol. 8. http://doi.org/10.866/pieces.px 	2:9	
6 .3	Stoppe of Manage (2016)		
6.4	Animal Output Parameters at Avillus Prigranguis (998)		
6.5	AP Schulin with Millight tyrigigen 1905 Com Statyt Archael Greich Carender to general 1874		
G.E	Detengation and Jesting a Program (year), [11]		
B.2	Contract heggenering Enter 20%		
	Chapter Reserve 115		
7.	Smiple Data Types		329
7.1	Fryacterial on word Consultation of Malmeric Areas (300)		
7.2	Equitable in white case even of Tyre (by 124)		
7.3	COURT COURT NAME AND		
7.4	No Silvo Apenis materia. Mo		
	Kare Dudy: Brown to Medical for Earling Pengli (319)		
7.5	Sizes & heigenming thors 156		
	City tenderal si 25%		
8.	Arrays		367
¥. 1	Berlinning and Belowinking Array (1986)		
8.2	Anay Subscript CSSS		
1.7	03 м, бог сосух бог Сервен, ад Анстик, 174		
8,0	Jerby Auray Skrimints as Enterbolic Argoniceus, (Age		
1.5	Altoy Arguments, 282		
4.6	Substitute and sorting an Array (247)		
3.7	Volunt mentional vivings, 462		
3.8	A ray heavy any discrete state		
	njare Shuayh Analykis of Salas Cean Host		
89	Common host maning times, 216		
	Chapter Resigns 416		

9.	Strings	433
9.1	\$000g Boles 434	
97	Stein Ozen, Dawnow Wegment and	
	Pallication (42C)	
93	Corpo Straw Consideration and White Line	
9.4	kpn 408	
9.5	Street Configuration (45)	
9.6	Anayoni Caroors 457 Character Countries - 463	
5.7	oli use of Brimper and Humber (a Study	
•	Through a 419	
9.8	allog hister og Natikaged 476	
	1987 Stocks vert Salter, 456	
9.9	Common Programming enjoy: 18%	
	Choppin Printer 487	
10.	Recursion	501
10.1	the state wolf for mason into	
16.2	Transparkerupgge Russings (507)	
10.3	Roser - we bisherral radius name in th	
10.4	Description Purchasing with Array and Electuary	
	Proprieture \$1.2	
	Test Storty: France, Carriet reties in a Strice, 532	
	Cisc Study, Recovery Networkov New 1975	
10.5	Tribbian Solvens with 8, on your 52s.	
	CASO Stody, Operations removed in No.	
10.5	4 COST CAN Study in his on the News Printed that	
10.7	Common Crapano deg Spes Nos	
10.7	Chapter Review 644	
	About to the Am	
11.	Structure and Union Types	551
111	Ster Sit at J Constitute to see Ass.	
11.2	- open and out the fine types in Sa. - Charliere type Dyna or kiput yad Capsul	
11.1	- Kindinger (year) (year) input yang dajisur - Kindinutian - ESS	
11.3	Foregoin Whose Arroit Values Air Caludon 4, \$54	
	The second second second section of the second seco	

114	action to said the the fault. If the said	
	Care Step, A to obedann gree for Cangest Available Mill.	
11 5	Frigile! Arrays and Arrays or Stroctors 1537	
	Card Stray Cover and Milancom of Conversion 579	
116	Johan Tyres Paper and P. Gels	
11.7	Coordin Begrandum Front S.S.	
	Courter Peychs, 19th	
12.	Text and Binary file Processing	609
	had been and the second and the seco	
12.1	hypatrikup a kora. Fewisw wid kijul er Study (616)	
	Resorted e.fr	
12.9	Conditional Explorer 708	
	Char Stole (Outdoor Natury 1675)	
12 4	Cistano Regionado En 21, 448	
	Crapte Acoust 649	
13.	Programming in the Large	6 49
13.1	Comp 415/12/10/10/ktma widemolesty isSc	
13 Z	Personal Unique on Reader May 3 (3)	
13.3	Personal Libraries, Enclaire Patrim Film, 558	
13.4	Schools Control W.1	
13.5	http://purfurchars.forhides.com/attorary.eta	
13.6	Conducted Comparys on 1970	
13.7	Automore to for known upon 674	
13.8	Pelating Clara Agail (15.576) in 17.	
13.9	Convitor Hazarvina, Crass (6)	
	Chapter Research (68)	
14.	Dynamic Data Structures	693
. . .	harden III.	
18 I 14.2	Promises 194 Program Venez y Artscallen (C.8)	
14.£	Threating 76	
14.4	Terror (at 177)	
	Regoverning a State with a project of 1717	
14.6	•	
14.D 14 T	Ordered train 727	
	ar wearing a tipe	

	1905 DBCA (220 mbm), A not confine tours.	
	Administ 775	
	Smary Trees, 730	
16.9	NO John Disgrananno Empty 795	
	Charles Reages 250	
15.	Multiprocessing Using Processes and Threads	759
	,	
15.1	shirtash q 760	
	Born C. 265	
15.3	hitraphores Colomus capital spoling is 372	
	Thirties 784	
15.5	Toteons Tourspied 791	
	Catt Salah, 10.6 Fant and Konstoner Model 1941	
15.6	Consent Europeaning Stocks (204)	
	Cirighia Krane (82)	
15	On to C++	
10.	OII to C++	611
16.1		
	Finguence 512	
16 2	. ++ Зирии Cfor Up reteriorated Pregnantiney (A19)	
	Clarical Review 894	
Ann	endices	
1-1-		
A	/ representation 930	
	ANN C Control traune (14)	
č	/ //contx: 899	
ò	Von about London, 464	
F	ANNA Federal Victor 87 (
•		
Arts		873
	,	
Glus	sary	901
Inde	ex ·	907
		30)

Problem Solving and Program Design in

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Overview of Computers and Programming

- 1.1 CLECTRONIC COMPUTERS THEN AND NOW
- 1.2 COMPUTER RARDWARE
- 1.3 COMPUTER SOFTWARE
- 1.4 THE SOFTWARE DEVELOPMENT METHOD
- 1.5 APPLYING THE SOFTWARE DEVELOPMENT METHOD CASE STUDY CONVERTING MILES TO KILOMETERS CHAPTER REVIEW





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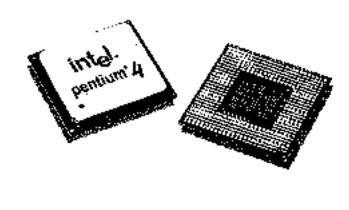
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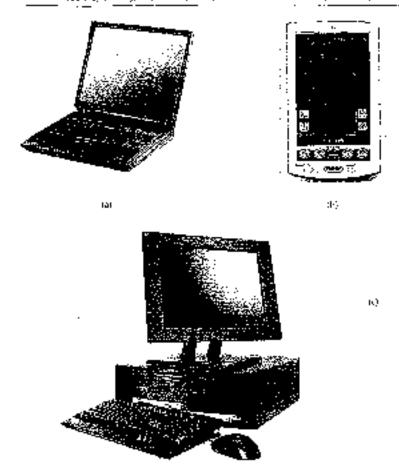
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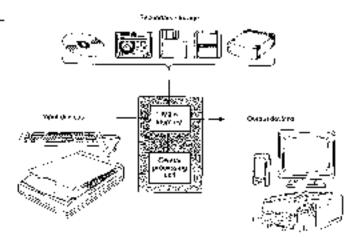
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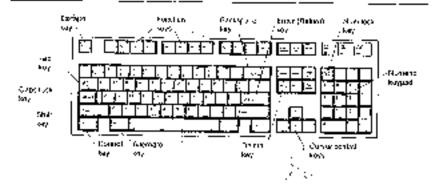
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FIGURE 1.7 - Keylmand for File Type Computers



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Computer Networks

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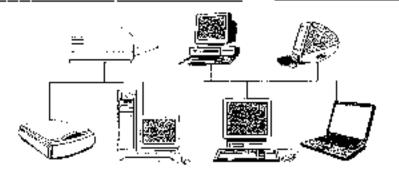
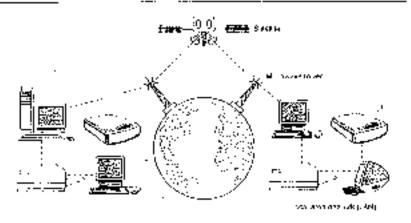


FIGURE 1.9. A Wide Area Mounter vall Set (III & feeligs of Microscol Nightlis



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EXERCISES FOR SECTION 1.2

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1.3 Computer Software

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FIGURE 1.10 Cut-map a UNIX Continue killion Contractly Grands.

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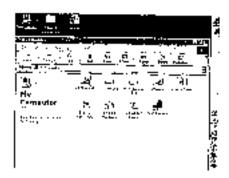
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Application Software

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Computer Languages

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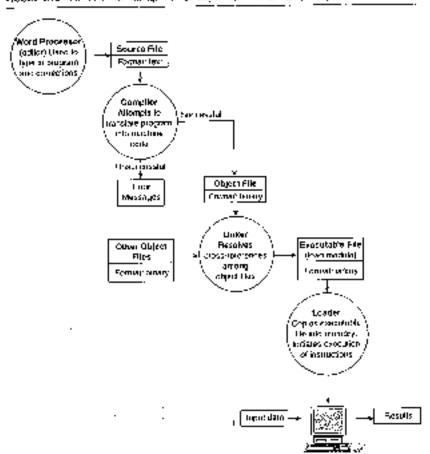
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Executing a Program

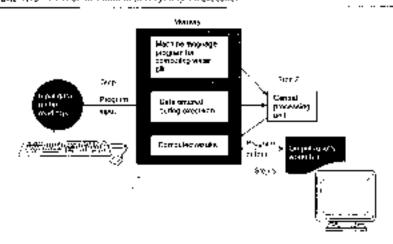
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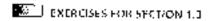
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1.4 The Software Development Method

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Software Development Mothod

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MAINTENANCE

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Coution: Failure Is Part of the Process

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FRANKCISHS FOR SECTION 1.4

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- 2. In which despite the algorithm developed: In which phase or sunremaily the problem injerts and Joseph 204

1.5 Applying the Software Development Method

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CASE STUDY Converting Miles to Kilometers

FROBLEM

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ANALYSIS

The best step of schein, this position is a cheterative what you are acted to be V(n) must exercise from the system of inflations to another. For the your supposed to other 1 from the matter that the relative wave vertal. The problem states that a specific to shall at step 1. Consideration, as you must convex distance insumment of the other to side of the Thorsberg the problem upon is a state $\frac{1}{100}$ must be made and the problem to expect $\frac{1}{100}$ must be made the convex three states and the problem. To write the program of you meal to shave the solid within the convex three such them to be specifically state of the state of the share that are not be equals 1.900 this position.

The daily requirements are relevant formula, and list of belowing the globallist the memory self that will four in the position up it and way decreased a name of their will contain the program work, of the probabilistic inspiral.

MATA REQUIREMENTS

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Problem Onton

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Released Formula

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DUSIGN.

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ALGORITHM

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- Consert the distance to kilomoors.
- Display the detailed in Allowelets.

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Step 2 Befinement

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ALGORITHM WITH BLEIKEMENTS

- Get the distance equility.
- 2. Convert the distrace in kilometers
- \$1. (In distance educantary \$1,000 fine) the distance number
- the Dayley the distance to leburaters

Cart. Let the title algorithm to see going for the 10 cap 1 gar value in and 100 maps, stop 2 few of the new off to 1 tested bottom 15.50 later eters. This cap test result are full to displayed by 2 few.

IMPLEMENTO: OR

To any current the realistics, you must write the algorithm as a C program. In the this you must first oil the C computer that the publicative at a expense or described by what meaning will means you are using and what had be the write to should in each meaning of the Acceptance of the wealth of the control of the contr

FIGURE 1.14 - Elik some Complete Consessed Intagram

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Figure 1.14 shows the C program sinus with a scorp to execution. For may identification, the program of a new positioning to algorithm to person in rulin as is the upon data report in by the program used Comb war consent males standing sho datals of the program of well. We explain the program in the next chapter

TUSTING

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Chapter Review

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- 6. There is trap companies a major also allows through of resource hard resource in LANs and work wide resources and WAN and reside information.
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- Through the repercent system, your an issue community in the management and tournge Blos
- 10. Follow the and two steps of the without allowing point to this how loop a gradute up a phone of hyperdy the problem (2) males, the parhytim for design to indiger plane, their plane at the algorithm, and 50 to diagnosis for the completed a region. Whos people are the consistencies between some consistencies, understand, certaint es

Quick-Check Exercises

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- 3. Specifiche erreit insur facthese (peutious) areatre it agrathe Jinling s Louling.
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Answers to Oulck-Check Exercises

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Review Questions

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Overview of C

- 2.1 CLANGUAGE ELEMENTS
- 2.2 VARIABLE DECLARATIONS AND DAYA TYPES
- 2.3 EXECUTABLE STATEMENTS
- 2.4 GENERAL FORM OF A C PROGRAM
- 2.5 ARITHMETIC EXPRESSIONS

 CASE STUDY: EVALUATING A COLLECTION OF COINS
- 2.6 FORMATTING NUMBERS IN PROGRAMS OUTPUT
- 2.7 INTERACTIVE MODE, BATCH MODE, AND DATA FILES
- 2.8 COMMON PROGRAMMING ERRORS
 CHAPTER REVIEW





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2.1 C Language Elements

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Reserved Words

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Standard Identifiers

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User-Defined Identifiers

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2.2 Variable Declarations and Data Types

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Variable Declarations

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EXURCISES FOR SECTION 2.2

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- Indicate which of the wildowing are wind type and, degree on others in ordinar may mail which was mentioned yithough all one with convent
 - Fr. 9 20,122 (6.0 999 (120 191 ٠, 12721 100e1 1-31 470-6
- V . Who would be declosed with Next policy the process region is $p_i(x) = 0$. include the groupe for the perductor of a symbol of a global above the moin lenn? The dist letter of co. This topic?

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2.3 Executable Statements

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Programs in Memory

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Assignment Statements

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-expansion of the conclude was. The value assign of indicated in the modified model is seen to strong the tagget of the constant maximum step for Refer (1 dirty to the

FIGURE 2.2

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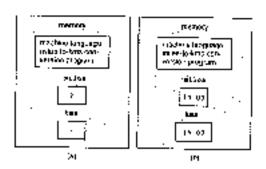
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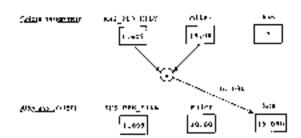
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DIGDRE 2.3

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Assagnment Statement

Fig. 1. Sandra - Imprension

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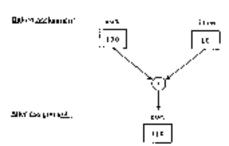
EXAMPLE 2.1

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FIGURE 2.4

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EXAMPLE 2.2

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calculate the compared to any the value of x_i began that with x_i and space that is sufficiently. For each plant x_i in x_i and x_i is x_i and x_i in the assignment of the insignment of the decay of collections of x_i .

Input/Output Operations and Functions

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Section 2.6 minimum the discussion of tipe $m_{\rm tot}$ and doubts represents μ assertions

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group de kasilo bi

In the section we show how to over the input for the notions and the contest for a time pair t

In C. (Transform ead) a median radion or tisk to function. Calling a food one or and notice to rising a friend to perform an ingent to be Not rell perchanging to a conductive radios to the C. (and west Saryon theo to respect bases that the Cost is further than any transport for mill, where an government of a same thing also.

The printf Function

This give weakly the program execution for must have a way to specify of a country who exhault by Replaced to Fig. 3.1 the section of

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TABLE 2.5 Place in Herson Formal Stones

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EXAMPLE 2 s

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Syntax Display for printil Function Call

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The scanf Function

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table, answer scar from a succeed in one of 100 caps data, and the wavened out take to here of a succeeding part of a data is owned in the wavened matter of 10 caps of the data from the atomized reput data is the data from the atomized reput data in the caps of the data of the caps of the caps

The ferror of the residual angle physical behavior with search about hard all the transport of the excitable setting between the physical or of the most operation will provide actions one of the physical mass types in a notice. Figure \$5 shows the effect of the veget operation.

Note: that in read to acoust, the countral main workle dust is to be greated that is presented by the imperious industrial (3). The visited translation of properties the histopical translation is present in the vegocies and the bright force of moves to find a first order to move to find soft a grable into which the toy to a new value of the imperious articles (but a construction of the into a first order to moving a seasof a sold by models to story a seasof the interest of the into a morning order of a sold by models to story a seasof the inches and the

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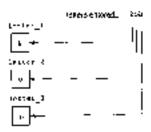
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Scorning (1974)



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Syntax Display for scanf Function Cod

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The return Statement

The law length the main function (Fig. 2.1)

secure (6):

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Syntax Display for return Statement

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TOXERCISES FOR NECERON 2.3.

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- Write a categorial Collays the user output three integers and advisor statement that stores the fluor interpreparate into execut, second, and that if
- Write a continuent that displays the 54horang law with the control that type double concluding at the con-

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3. Write a purpose that resealth user goenfur the action of a college datase concerns only haplays the consistency. One tay beautiful.

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Z.4 General Form of a C Program

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FIGURE 2.7

General Form of a Cilbaption POS Posterio desectora Maio finistrato herebros L

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e withing a statement that displays a principal and a structure that gots the data respected. We concurred what was players of one catomeration a line because it appropriate additional profession over beautiful and along year.

Program Style - Spaces in Programs

The consider and then diggs of which spaces and impose the style of a program ALLark (page a required between topoconton words in a program in a

The consider quasis so to plank electron words and syndod, but you may ment space to increase the conductity and sight of a program. You should do sylbert a blank space of electronic consider for main for the appropriate state for e.g., and with the budget the budget the barboard section of the program.

Although soften recent face modified obstever on the meaning of the progape of firm the an year is consisted, the consistent racks for people of rack are multistand the program Take care, however not connect thank spread obside they for not belong. For example, the demand for a prospective disconnection that carried of a complet the and self. Also, year open order the identifier may trace as loss 1920s.

Comments in Programs

charge miners can unite a program a star to inclinational lyposing from the fordiscressives purpose of the program the new of identifiers, and the purpose of each program top resonancies are part of the program decrementation to cause they halp influes used and amplitudated the program. The compilety harders improves composite and they are not consisted by contributed groups.

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Program Comment

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Program Style | Using Comments

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MS DEERCISES FOR SECTION 2.4

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- 2. Ozero, the service of each of he fill ording program, with conditioning program, so that it follows our explorations where. What were each sentencent of condesserved program of a What copper does it displays:

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Proceedings

1. Write a program to that steep is the retrievers and 55. The superport meaning with View your, and small got the reliability of the democracy display the orangem 5 of the risk in their 3 me.

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2.5 Arithmetic Expressions

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Table 2.6 almost all the inclinate represents the background of places proapproximate the long by construction and on outline and excellent expression. The population of the form the used we have the construction product Astronomy in the later of outer, the data type of the result is the same as the data type of as of construction by a data type of the results are present (a), can be used as it

TABLE 2.6 An Himotol Operation

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-	Arrage state	5 - 2 le 10 5.1 - 2 le 10
′	Entra No.	5 4 7 2.0 th 2.4 5 - 2 - 9 2
7/	- Oranda:	2 1 2 16 1

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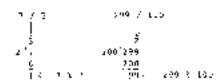
Operators / and %

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EXAMPLE 2.4

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Data Type of an Expression

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Mixed-Type Assignment Statement

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Type Conversion through Casts

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Expressions with Multiple Operators

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1	TABLE 7.4	If completion the tise of type due	1
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$$A = Y - A I$$

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FIGURE 2.8

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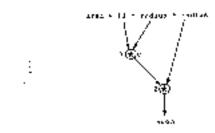


FIGURE 2.9

Mearly Step Light-Step Lydronich

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EXAMPLE 2.6

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EXAMPLE 2.7

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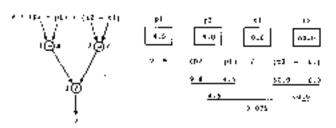
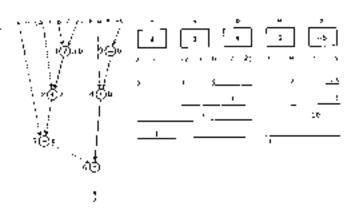


FIGURE 2.11

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Writing Mathematical Formulas In C

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TABLE 2.40 - 61:Opportunital numerical and () Opportunity

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CASE STUDY: Evaluating a Collection of Coins

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PRIOBLEM

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ANALYSIS

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DATA SEQUIROMENTS

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Additional Program Variables

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IMPLEMENTATION

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TESTING

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🗱 🚾 EXERCISES FOR SEC (1004-2.5

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Important for 9

). Write an assignment system of the might be used to a system of the following equation $\phi(t)$

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2. Write a polygram fact stones the entires (x1, 10 = 1, 34521), and 35 in exposure for purmity cells. You operate should get the first there is no its input cells, but no an engineer time result to the fact has called.

2.6 Formatting Numbers in Program Output

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Formsatting Values of Type int

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TABLE 2.11 Declaying 204 and 1734 Jung Dillment Placeholders

Formatting Values of Type double

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Program Style - Commating Leading Blacks

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TABLE 2-13 For matture Type comply within



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2.7 Interactive Mode, Batch Mode, and Data Files

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Input Redirection

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Program Style - Bross Cours versus Promots

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Output Redirection

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Program-Controlled Input and Output Files

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■ EXERCISES FOR SECTION 2.7

Tell Check

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2.8 Common Programming Errors

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Syntax Errors

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Run-Tima Errors

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Undetected Errors

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FIGURE 2.16. A Propier with a Run Time Cour

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FIGURE 2.17 Recise "Start of male Combinal Architect paylogues."

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Logur Errors

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Chapter Review

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- 6 Cyrasa types crock the compiler to determine moves one open entitle cline to mean gyraph of of upon a case of the performer michal cyline is hose standard data question (C. C. and S., and S. a. Thorder type of each carriable med Seeder layer).
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NEW CONSTRUCTS

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Quick-Check Exercises

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- 7. What data topic considers on more topic potential to tellawing items principles of each ten pass book, a little grade on or example according an other of selected days a children dissent exclusion.
- In which so profile sulfigure revel gaver, method to the professional supply alkahilised?
- 7. If hurshine sears is getting two weight is from the same line of input, which have ten about the new Up separation ten?
- 5. Then deriving computer dictioning how many discovaling to get from the quotal cost of our recovery operation is provided.
- In morte perge program, finacides, the pengerm year known too mane data subjects, error or on the perger functioners affects.
- 10. Does sho complex listing show syntages, must make resp?

Answers to Quick-Check Exercises

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Review Questions

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Programming Projects

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- Write a program that estimates the temperature market worder 80 given the chose to be character to a power buling loss are this temperature 90 is given by

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- where fixete time a resulta power tade of the program doubt proves the case to enter time long of the been since the case to be power fallenger. Whole how a reclaminates. Note that you will vised to convex the masses time incolores. For example, if the uses a consult \$0.000 leaves the manner of the obligation incolores.
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DATA REQUIREMENT

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Problem Output

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JAIA REQUIREMENTS

Problem Inputs

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Problem Outputs

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- In the example does not be final coold. Step exent of the convergence of the March's program that calculates how many Bank of they are delivered from some given the transfer of gallons of of the problem thread events of the capacity of furnary. Assume that a bornel of ed. (12 gallons) have been any scanical ent. (15,900) for this (Nov. 17) so the entire bary in each world of an extension parameter compact to the contrast use at efficience of 65 per many and 110 egale with me.
- 8. Mean City can mis progress that a corr munity source so expect or imply in regiseing all the content unity chales or its lower instruction that is enough a little source flush. Assume that there is alread 1 link that ower 1 per normalization are not only of 15 stead per flush, that a two et is flushed at 15 years per flush, that a two et is flushed on 1500 get 15 that a feet in flushed on 1500 get 15 that a feet in flushed on 1500 get 15 that a progress that a solution is a synthetic literality and 1500 get 1500 g
- White a paray and hat take other angle and width of a rectangular your hand of the gale and walle of a nothing day force securing. If a your Proof program is wild an open the remotes point to another graves the ratio of work plate fact one and.
- 10. We one program of a pile was input the numerators and sension instructions of two and main terms of against conditionally for incrementary of the monotonical destraction that represents the product of the total course. Adm. Capley the performer per content of the first open of the first open of the performance.
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Top-Down Design with Functions

- 3.1 BUILDING PROGRAMS FROM EXISTING INFORMATION CASE STUDY FINDING THE AREA AND CHOUMFERENCE OF A CIRCLE CASE STUDY FINDING THE WEIGHT OF A BATCH OF FLAT WASHERS
- 3.2 LIBRARY FUNCTIONS
- 3.3 TOP-DOWN DESIGN AND STRUCTURE CHARTS CASS STUDY: DRAWING SIMPLE DIAGRAMS
- 3.4 FUNCTIONS W. THOUT ARGUMENTS
- 3.5 FUNCTIONS WITH INPUT ARGUMENTS
- 3.6 COMMON PROGRAMMING FREORS CHAPTER REVIEW





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In the first part of this element, we deministrate how you can be orange informs on an element the same of prescribing functions to write programs. It auditions to one gravitating information, programmes, we use impolence design techniques to simplify the resolvent of all algorithms and the sensition of the result of programmes are not at its suffernment of the profit of prescribing in the programment of the profit on a lution and a programment of the profit o

3.1 Building Programs from Existing Information

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CASE STUDY Finding the Area and Circumference of a Circle

PROBLEM:

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ANALYSIS:

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SALA BEHIDIREMENTS

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Ph. 3.14059

Problem Input

Problem Outputs

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Relevant Formulas

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DESIGN

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HIT AU ALGORITHM

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ALGORIGHM REFIXEMENTS

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Step 2 Deflagants

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Step 3 Relinement

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IMPLEMENTATION

Figure 3.9 Separation C program within the main benefits the restablished into a state of the contract of the write the final program, to one in the relative program of the program of the contract of the co

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FIGURE 3.3 - Call objects of the Area and the Concording to wall a context

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FIGURE 3.3 (continued)

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TUSTING

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CASE STUDY: Computing the Weight of a Batch of

Flat Washers

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PROBLEM

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ANALYSIS

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JAM REQUIREMENTS

Problem Constant

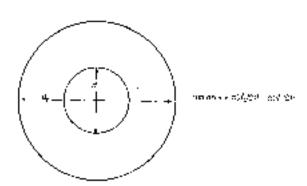
PC 1,54150

Problem Inputs

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FIGURE 3.4

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Problem Corputs

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Program Variables

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Released Formulas

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DESIGN

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INTIAL ALGORITHY

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Step 4 Referencet

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IMPLEMENTATION

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TESTING

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] EXERCIMENTO INSCIPION 3.3

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3.2 Library Functions

Predefined Functions and Code Reuse

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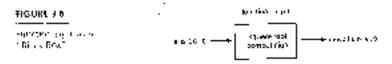
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Figure backers of yet the program of (g, 5.7) years (2) or that each statement statistics are if we a little (g, 5.7) before (generally execut, (g, s)) we have used Coperable instruments as building blocks to construct a new program.

Use of Color to Highlight New Constructs

In Fig. 3.7, program directly that directives p is a constructive to the configuration and the directive p with continuous construction for this purpose to figures that time term programs.

FIGURE 3.7 I Square Post Programs

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PIGURE 3.7 (Continued)

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C Library Functions

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FKAMPLE 3.7

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EXAMPLE 3.3

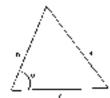
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FIGURE 3.8

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A Look at Where We Are Heading

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Proudument in

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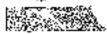
8 Mate 2. or planet program that a copy of the near to the Cott man coordinates of two points (2) provides a part of displays the distance between them exercised your state of the sallowing for only.

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3.3 Top-Down Design and Structure Charts

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CASE STUDY: Drawing Simple Diagrams

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FIGURE 3.9

Herein and John K Tejung





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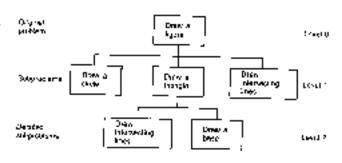
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FIGURE 3-16 Construction control for the ventor and the bodies





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3.4 Functions without Arguments

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Function Call Statement (Function without Arguments)

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Function Prototypes

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Function Definitions

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The function call statement

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FIGURE 3.13 From portion w_birds

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Function Definition (Function without Arguments)
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Placement of Functions In a Program

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Program Style — the of Coolean-easy in a Program with Europeans

Figure 3. At rel des second reconstita, tarb function begins with a more cent that describes its purpose. If the toroity of Aprengians term only exception is could me only accretions of a set unjoing governor top job, as our distribution of the total message of the black remains at a of heading at each built on stabilities or each of the labels remains at a of heading at each built on stabilities are each of the labels remains at a of heading at each built on stabilities are each of the labels.

Order of Execution of Function Subprograms and Main Function

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Advantages of Using Function Subprograms

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Displaying User Instructions

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EXAMPLE 3.4

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3.5 Functions with Input Arguments

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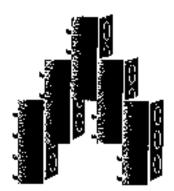
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FIGURE 3.17

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void Functions with Input Arguments

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EXAMPLE 3.5

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FIGURE 3.18 Foreign population (and Sociale Sun

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Functions with Input Arguments and a Single Result

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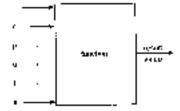


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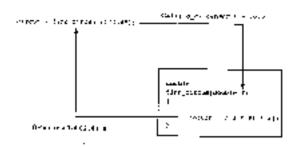
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FIGURE 3/22

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Program Style - Function Interface Continued

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Functions with Multiple Arguments

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Figure 3.55 shows a way surple condition of the fact to test furnish weath. The proof, sentencent call. So who is exact and displays the three proceed after it is a mixed. The a reward research [Fig. 189] does the informational flow between the paper in all arguments and Scientific markets. The large could be connected in the contract the function and the colors in this argument has functionally allowed and the colors in the argument has connected with a color of the colors.

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FIGURE 3-24 - Retroy Function state

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FIGURE 3-24 Continuels

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Argument List Correspondence

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Angument List Correspondence

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The Function Data Area

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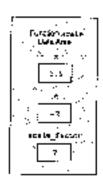
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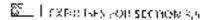
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Testing Functions Using Drivers

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Programming

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3.6 Common Programming Errors

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Chapter Review

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 - Use the industry attached to storing posts on the count discrete ments in the majoraneous;
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- 2. Ose Call har gef and it so to simplify not accordingly compared on the neglection on set of global constraints of called that has already been written and to get the rest at most one all forms stong at the fine too too too sens and arguments the according to the function of the f
- Le l'Entre Crucia d'Auto-Roshine métalements, i mishipo beta per sul prindicio.
- 5. I filler mesular progotioning by verting septilized function unlipsing residential of the different subject definishing refer edges the filler three short. Realth your option broad entirely must dispersely a supplier to a function of the transfer subject entirely and the filler transfer subject entirely and the filler transfer subject entirely.
- b. You can write him helps wirthout sequence state results to display a for of continuous to a program member to display a diagram on the work in this after the cities and courselying or the four four name full two largest apply program these of the actions of the diagram.
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Quick-Check Exercises

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Answers to Quick-Check Exercises

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Review Questions

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- 2. What is a fine from probability
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- Other and homogenutages of usual functions:
- Is the according those was now a bound to present makes time on the computers time. Explain communication.
- 5. Woody appropriate prompts the over for the two largest conditions of the description of the powerful transfer and applications on 10 or by high agencial there is described in a panel (to be gifter defented in performance).
- Write a pengerum that those successible in selection as the object of pender of returned to the Conference of the object of the o
- 5. Dissolvation to include the disciplination described to the venicities of T
- 3. Write the probably of the affine handed lines, a type time for three input partial stars. The line examination of ill in the number of approach of soft of the large magnet. The offer conditional parameter will be the number of three complex than the spines and the three parameter will be the number of times to obtain the plan three conditions.

Programming Projects

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- 3. Add the boost one from Fig. 2.11 to the arrow for Programming Project 2.4 so there boost a program that base a resket dap to large covernors as given see intersecting most, a ratio and hypotherization or remarkless continues to buildings, and a toroid took form draiding or the result of a ratio see kell ones. With this discussed as \$2.12 toward one, if to place how to public a between days or \$1.5.
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Problem Outputs

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Relievant Farandas

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- 9. Write a propose that release process municipant is after four liquid and more of the according to planes. For example, 98, 1854 over discount of 98-10, and 12-4430 would missed by \$2.14, for set Non-TSharpbook a municipal so table 4.9 and 1 measure seates in Fig. 3.2.0.
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- 2. A non-factorized sides to calcermanths in collapse during a signoring solution of the distribution. The studies area of the contemporary for the orange of the contemporary for the orange of the law to assume that the property of the contemporary for the surface of the law to assume the Leight of the contemporary for the orange of the surface of the end or of the contemporary for the contemporary for
- 15. Write a program to take a double in all and on, lower the markers inportunity exception and display the temperature at this depolar degrees Cosins and degrees I adventually relevant to make use.

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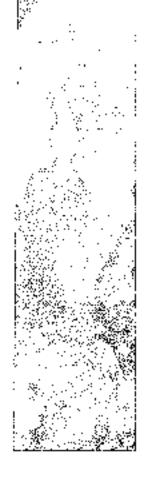
18 Write a group at that calculous the specific send (a) in most sigion store project $f \in \mathcal{F}(G)$. Use the topology $\int_{G} \frac{dF}{dG} \frac{dF}{dG}$

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Selection Structures: if and switch **Statements**

CHAPTER

- 4.1 CONTROL STRUCTURES
- 4.2 CONDITIONS
- 4.3 THE IF STATEMENT
- 4.4 FISTATEMENTS WITH COMPOUND STATEMENTS
- 4.5 DECISION STEPS IN ALGORITHMS. CASE STUDY WATER BILL PROBLEM
- 4.6 MORE PROBLEM SOLVING CASS STUDY: WATER BILL WITH CONSERVATION REQUIREMENTS
- 4.7 NESTED IF STATEMENTS AND MULTIPLE ACTERNATIVE DECISIONS
- 4.R THE SWITCH STATEMENT
- 4.9 COMMON PROGRAMMING ERRORS CHAPTER REVIEW





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4.1 Control Structures

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4.2 Conditions

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Relational and Equality Operators

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TABLE 4.1 Personal and Equality Operators

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Logical Operators

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Operator Precedence

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TABLE 4.6 | Ownstor Prestoring

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EXAMPLE 4.2

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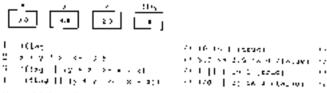


Figure 4.1 almost the cosmody, it we analyte polycycles during the expression 3

FIGURE # 1

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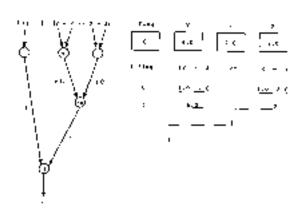


FIGURE 4.2

Sange of tele Value for Paris in Fill School Anna eas



Short-Circuit Evaluation

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Writing English Conditions in C

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FAR 5- 1 AB 2 A 348

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EXAMPLE 4.3 Table 1.0 dates when English conditions and the corresponding Comprehensive leads a pression by second discounting x is 2.0, g is 4.0 are a reset

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FIGURE 4.3

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Companying Characters

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TABLE & B. Charbite Completions

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Logical Assignment

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EXAMPLE 4.5

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The expenses in the first is symmetrate and to the if want fire continuous ditions listed (was greater than 10 and not less than 10) relieves the responsibility labor.

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EXAMPLE CO

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Expansionally controllers are distrible by ξ_i the controller of which 1/d by ξ_i (i = i/2) in CD is 1 who only an experimentation. The expression i -proportions a companion the remainder to 0, so the value of 1 (repressive in the nonanester i = i/n) by i/n (false) of a the experimental instances.

Complementing a Condition

You have seen how to complement a logical expression by proving it with the symbol. You can also complement using the conflict of speed only a graph of speeds of the conflict of speeds of the symbol.

EXAMPLE 4.7

two forces of the companion of the condition

The COMMON

on:

TOTAL OF SERVICE CONTRACT OF SERVICE CONTRACT.

The fore-on-the right yell come by Hongling the equality spacetor , that is, was $\phi = g + \pi \ln 14$

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EXAMPLE 4.4 They obtain

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- On complement of equipment place within as many. If some other weap is three applement of care, and coope is the complement of some.
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Ε.

PREMISSON TO ESPECIA DE PARTICIPA DE PARTICI

Self-Kunckk

 Assuming 2 is 15. Cooldy (128, 0, what no the values of the following conditions?)

Figure 1, and of the binaring respection of the Public 13, 2 is 15, and the public 1 of the expressions are not confusted the factor of materials and a factor of the confusted.

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5. A · v · 1 · 22 · C · Aq · | · · · · · · · ·

V · · 1(5 · C · 12) · · · · · · · · · · ·

V · · · (3 · C · ) · · · · · · · · · · · · · ·
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- 3. Show step-by supervaluation of representation than 146 (2)
- Gemplenje il esche asy assiste in Educatic 2: Pac Lacytergur ethocasia produtation.
- Moreover, one assigned to the type read reliable are in the statement type of value so provide and greated.

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The statement is not always an arone weight of the except of policy on policy in the notation of the except of the entrement that the except his to the resident The statement of which is statement of the first threat which is statement of the except of t

Exercises

- Write an expression resters for each of the following petrologistics.
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 - his wares o leverlong as one group of or than \$1.1

- year is does No long (Hart Town).
- it. I appear to the greater than the
- en ly a greater than sunction than a
- Sign the signification of gentle for the
- 2. Write, signal Chapments So the following:
 - Accept a value of a to second of a single range as the origin and insure otherwise, assett a value of the
 - Avagora while of a following content of the conjecture of the conference of the conferenc
 - Recign a value of a to division if the inadicion of a subcovide excise a value of file.

4.3 The if Statement

From the first Eq. (19) of the f is a presented from the expectation of an instrumental f. The production of the most trace FS is the permutation f. Note the entered to accept gate in way to most the collected the $\{\phi_1,\phi_2\}$ is the solution of the first the $\{\phi_1,\phi_2\}$ standard in the primary which in results but the $\{\phi_1,\phi_2\}$.

if Statement with Two Alternatives

The ground hear

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    1) produced table > 14)
    print(cheep up your exercise progressive);
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-164

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princt("Your Inject by an excellent healthisher)
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of or the difference of the party of the shorts the standard to be sing the party discussed the subtance of the condition residuate to $(a,b) \in (0,+1)$ (that $(a,b) \in a$ such that $(a,b) \in a$ subtance $(a,b) \in a$ subta

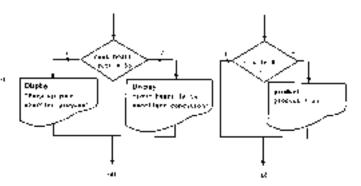
Figure 3. In Biologhaet of the providing of attachment. A description is of a good that an electronic and in root to show the step by step, evolution of a control variation. A distinct of the political in a flow from transfer in the analysis of the features and the second part of the features and those in a transfer of a thicket becomes larger than a specific of the providing that a providing the control of the providing and the second part of the providing transfer of the second part of the providing that the providing transfer of the providing transfer of

Oguse 4.45 shores that the conductor tract_bases (estable 5.5) is technologically first. If the conductor is large, program control follows the across blacked tract, and the assignment valencent in the right is attained in established. If the condition is

Higgs (1961) in distriction for the distriction (see section the engine street as

FIGURI A,A

Designation of the Statements with the Rea 20ge rations and differentialist



bler, program control below timeness taleful false, and the religion of container of the felt coronals is recommen-

if Statement with One Alternative

The inflation in the bar of the backgood remains a but size to continue for a given side of result poor a gazanteer about a water as it consists with a cough observation (fair remain) and with a three political size α .

The 15 statement anormismed in Fig. 4.15.

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in relativity Product by a relation is the life of the left of the product of a product of a
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Let one other satisfy which is excepted only when a point x-quilt in X. It causes produce to be unity to they and the cook value to be sates, in product, in X is giving the soft above the x-counts, X, the unitarphention is respectively.

A Comparison of One and Two Alternative if Statements

EXAMPLE 49 Ferrif Statement have bus two elternations

It displays after constant is arrogant, the ending on the the other smooth in the type chair and the a (3) for A (3).

EXAMPLE 4.10

The appropriate for the low has not discussed in the physics the correspondence of substitution of the physics of the contract of the physics of substitution of the physics of the missage contract who produced in the physics.

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EXAMPLE 4.11

The program incomed

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is an astronger version of the 18 statement in Ecomple 1.10. The classing gamen the second of the consultations are into expending to 4 her date, and failed providing evercenteelt by the computer.

The gern some density the had him below

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purple firems America;
chiantic conduct ships = i;
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cans not carry a social or of O spotent device once the compiler non-datorable high in as a longitual territory at a tate must with an engally state situal. Top you to return it the condition in the of the floor paper (three the dependence on the value of the condition, subjith cally required, as a worsted metabolitically.

Program Style - Formation the DiSpit county

All at statement excepted in this text indent who execut, and who execute the world execute the perfect to substance to the expectate limit. The former of the air statement makes become, a apparent will be used solely thin procept program probability that forms makes a conflict make wholey coupler.

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Programmer

- Wink () states onto greatly or the following steps:
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 types figure.
 - State the also as a difference of x (x) y or y, where the asolate difference is experienced by a difference positive. The other the above the short many contract of the following contract of the contract of th
 - $e=\{(x+y_1,y_2), (x+y_1,y_2,y_3)\}$. If a none-point wild a third matrix case of a regression than θ with a topological and

4.4 if Statements with Compound Statements

the probability of extractions of statements having compact of statements, after the condition of the keyword globy. When the wouldn't halous the condition of a lower the compile, with which we recommend with each through the conditing the

EXAMPLE 4-12 Top precipition, also light declaring the proof block of faul they the 32 distanced

computes the purposation growth using year-ady (conclusion presenting, of preteriors is gap ratio). The compound statement after the conclusion executes such when to day's population is larger than the total of The suntangential in appoint the mention in the food the population, and the located programmal removal life on properties of the page of population, who was explicit

EXAMPLE A 13

As a unique of recompany/mathanel/file floor, you compressed of the sofety rating of the floor cost in the integer of that behave, the free rode code is represented in a distribute expects, and whose interferent doing index text for some context has a great as the multi-year lower texts, both for except alphanh each curvatory context floor to the cost cost cost cost and attailed the office of our appropriate most against the property and one is additionally the count of soften in too feet us. Set if the count of soften in too feet us. Set if the area and file most cost of company of statements.

It year one of the brocks concessing the assumment statements, the left statement would enclude the first had action froul. The configuration to a site would be provided to a smooth described as a messand transfer as not the engineering the mark the beyond other to an arm by cause any decorate on real begin with a two

Program Style - Whitest in Estimates with Compound Institution False Statements

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Tracing an if Statement

A critical stop in program disspects awardy fiscular approximent Construent to contest large eyen special extension time cooling to Monggrag 1, 105 to offer extra numates specially wer figure the correctness into college while were bronk of exemple of testing these.

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EXAMPLE 4.14

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FIGURE 4.5 In I Statement to Order yould y

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    5. (a a a y);
    6. (a a a y);
    7. Stepe of a in target?
    8. (a a a y);
    9. Stepe of a in y ??
    9. Stepe of a in y ??
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TABLE 4.9 Towns of Assistance of

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in tracing such each your word be such followed onto the statement converted by Outile is the computer would execute it. One progrutation assume him a parto that deposit be eye, it class that explicit, test is a condensa yid to a condiwip. Alterrape being brights wip it of little value



■ DEXEMPLISES FOR SECTION 4.4

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      promove a newl classic Classic
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- White in the formal program that concained in a concern of that may be used be compact the near of yopen forward whether a conditionary is 8 years are index; for program ing the axis to eye the first that icome of the highest ware execut).

4.5 Decision Steps in Algorithms

riccionante per per per de de la cienta (c. per, se de report per Cha Digizathur depot satilekot from Arctoise of articule and attendant that decision steps. The algorithm in the cost profession tim time elemann diaps to two quide and dapthy a cultioner coaten hild heard on issign The decision steps are coaled in an statements.



CASE STUDY Water Bill Problem

PROBLEM

Write a program from computer a customer's water bit. The 6-T inchebrain 835 with a deciring colors with a deciring a play with an appearant stranger of the customer's side a most Contrappearance figured from metric remains (to be used to all gillery) paken projectly and so the cond of the gravitors quarter if the constant's mayord but among gravity (Nachon 1, 158 for the gravity results so well.)

ANALYSIS .

The j daltaport lift is the time of the demand and the energy k, the map of balance, and a possible late charge. The demand charge is a proposition to $k \in \{0.95\}$, and the upper datage map the example of the distribution k and k how the precise and current

the recordings the problem opens, After obtaining this above more problems the use thoughty and updang the difference between the two mater resultings by the charge of 1600 gallors, the problem material (1110) West we said obtains a throughput the strength of the charge in the conduction of the cond

EWRA REQUIREMENTS

Problem Court into

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Problem Outputs	
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Referent Formulas	
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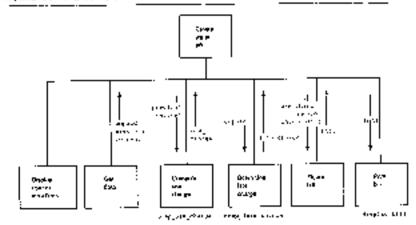
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- 2. Coll data impaid exclusive pressons assurant in the costing-
- d. Campute contage
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- Ingan Bill amazant
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oppforble fallenhage.

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persuases and one control its reputs (white those only points it was) and provides used on a set to the output. We will also use the or lossents of the duty flow of a national day, we complete the problem who two.

As shown in the substance of not, we see flavorus to implement all Sections 25, Each four homeometric residents the not the subspecified of which foot the form of appearance of the homeometric of programs. We will discuss with for other except materials resident which is straightness and

ANALYSIS AND DIGSION OF COMPLUSE CHARGE

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DATA REQUIREMENTS FOR COMPLUTE CHARGE

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of controls FOR COMPLISH I display

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ANALYSIS AND DESIGN OF COMPLUSE CHARGE

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OATA ASQUIREPRESIDE (OR CORPO) AND CHARGE

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ALGORITHM PHRECOMP LATE CHARGE

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presidente L'Anna (1807) Grafiguer de larger Chamber (1870) Aprill (1867) The discount step above is expressed in pseudocook, which is a misture of English and C used to describe algorithm steps. The indentifier and reserved we do not be to describe the logical strants and cook to isomorp. Each density step the argument (following 15) that can be written as English with similarly, the Low and faster toke can be readjoined English set 1:

ANALYSIS AND CESIGN OF DISPLAY_BILL

The word to depend engine a part of the physics the following and the late charge in disappeal helance of one. The emission of netter taxage thereta, and unproduce possed to the latest consemple arguments; suspense by the deplays the envalues on the conference.

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Inged Perameters

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Amenda Barta (Amenda) (Amenda)

10

ALGORISHM FOR DISPLAY, BILL

- 1 if the _charge + 1
 - display has charge and massic halance.
- Apply the full account.

WR EMENTATION

I allow the approach described is for than 3.1 to write the profession (6.2–4.7). Begin by scriping the first discrete at the profession authors to the numerous particular attentions than the profession destroys that appear of the stricture chair. Not write each way of the initial dg cutton as a common in the optic function body. To rempte the optic function g and such that such that the particular foreign function and g as a function of the exact function all affects the structure characteristic contribution of the imput approximate g and g and g and g are the imput approximate g and g and g are g and g and g are g and g and g are g and g are g are g and g are g a

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FIGURE 4.7 Thoraxon by World's Bill Mulifam

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4.6 More Problem Solving

Data Flow Information in Structure Charts

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Figs. 6.4.7 Chartes that is certably may be conditioned, those for different subproblems in the digorology made context of the colligious possion states well are exemplated corresponding problem. The supplied by the program made, discovering the exempt of the subproblem. The start the subproblem's task to a deliber of the flar processes and to account to the main program; there prove manner corresponding to the religious from this sequence of the substant time. The count of map is more range? The subproblem's task is to make passing as and or expect to compute start other or a other and maps to this sequence is as and one, the colling the rate or with a charge, a long of one sequence point the problem.

Modelying a Program with Function Subprograms

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CASE STUDY Water Bill with Conservation Requirements

PROESFM

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4.7 Nosted it Statements and Multiple-Alternative Decisions

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Multiple-Alternative Decision Form of Nested if

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EXAMPLE 4 16

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Order of Conditions in a Multiple Alternative Decision

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Program Style - Marketing the Value of Milliogles

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Nested if Statements with More Than One Variable

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EXAMPLE 4.38

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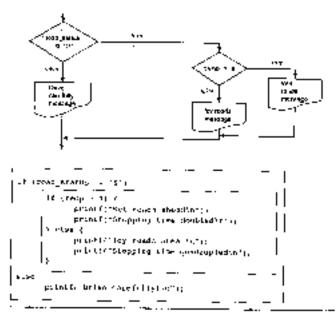
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EXAMPLE 4 19

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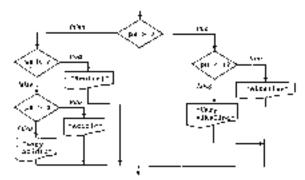
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■ EXERCISES FOR Section (4.5)

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4.9 Common Programming Errors

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Chapter Review

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Quick-Check Exercises

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Answers to Quick-Check Exercises

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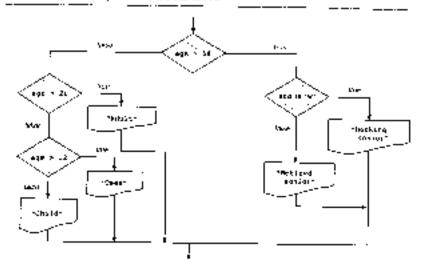
Review Questions

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Programming Projects

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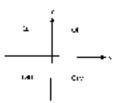
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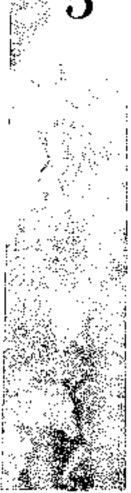
Repetition and Loop Statements

- 5.1 REPSTITION IN PROGRAMS
- 5.2 COUNTING LOGPS AND THE WHILE STATEMENT
- 5.3 COMPUTING A SUM OR A PRODUCT IN A LOOP.
- 5.4 THE FOR STATEMENT
- 5.5 CONDITIONAL LEXTES
- 5.6 LOGP DESIGN.
- 5.7 NESISDILGOPS
- 5.8 THE DO-WHILE STATEMENT AND FLAG-CONTROL ED LOOPS
- 5.0 PROBLEM SOLVING ILLUSTRATED CASE STUDY COMPUTING RADIATION LEVELS
- 5.10 HOW TO DESUG AND TEST PROGRAMS
- 5.31 COMMON PROGRAMMING ERRORS CHAPTER REVIEW



CHAPTER

5





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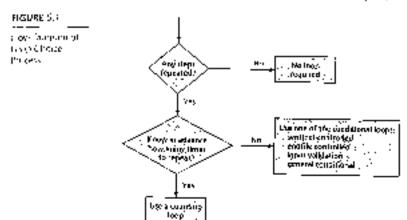


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Counting Loops and the while Statement

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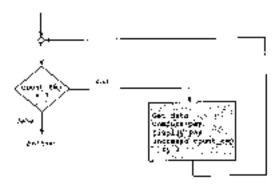
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■C. J APROSES FOR SECTION 5-2

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5.3 Computing a Sum or a Product in a Loop

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EXAMPLE 5.1

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Program Style - Writing General Loops

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Multiplying a List of Numbers

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EXAMPLE 5.2 The loop that is flow to obtain with the consistency ong as the purchast remains of a than 167 CO. Taking logs the product rate factor to be before assist for the condata who. The product of the explained activation by constituting the extension.

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Compound Assignment Operators

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EXERCINES FOR SECTION N.S.

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5.4 The for Statement

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Program Style - Remarking the for Statement

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Ingramum and Decrement Operators

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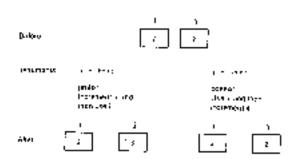
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FIGURE 5.6 Companies and Figure 3. Professional Control Cont



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EXAMPLE 5.3

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EKAMPLE 5.4

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Displaying a Table of Values

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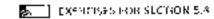
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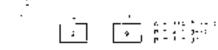
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- Witteraps og uter edlspår an nebesor er en mete værversme oble. Der studies, omflager, mindser of inclusion be table a er tput ergers førre falligsbevid green. Versomen temak over edse, turennib opråk 2,54 cm.

5.5 Conditional Loops

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EXAMPLE 5.5

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FIGURES 9 (con 1744)

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FIGURE 5.9 Frontingous

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Program Style - Performing Loop Processing in a Loop from Esbaragines

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5.6 Loop Design

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Santinel-Controlled Loops

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 - 4. It is another live of the

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TABLE 5.5 Problem colored Dienoist to Love through

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EXAMPLE 5.6

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Sentinel Loop

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 - 4 Add some to sue
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Using a for Statement to Implement a Sentinel Loop

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End (ite-Controlled Loops

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FIGURE 5-11 Park (Medion of Support Laboration Programs

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Infinite Loops on Faulty Data

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EXECUSES CAR SECTION 5 C

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5.7 Nested Loops

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EXAMPLE 5.3 The program of Liq. 5.12 examines a sentimed keep rested by him a more two loops. This same there is being a real to table by a confert of lead An Ollon Constant more.

FIGURE 5-12 Program to Proce A light Center Sightneys for a Year

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FIGURE 5.12 Investigated

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EXAMPLE 5 0

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壓工TEBOOKO585 19 0 SECTION 5-7

Self-Cherk

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5.8 The do-while Statement and Flag-Controlled Loops

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EXAMPLE 5.9 The keep

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Flag-Controlled Loops for Input Validation

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EXAMPLE 5.10

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FIGURE 5.14 - Validating Equal the gradual Value to the con-

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Programming

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5.9 Problem Solving Illustrated

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CASE STUDY, Collecting Area For Solar-Heated House

FROBLUM

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ANALYSIS

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DATA REQUIREMENTS

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Program Variables

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Problem Outputs

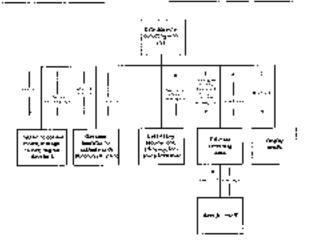
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- K9 teste Decodes traganes medial.
- 5. Totalitae nomes

RGDRE 5.15 — Similar e Chart for Computing 6.5% Callecting Area 586



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Additional Program Variables

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STEP 4 HERBURAL FALKET

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FIGURE 5-16 Program to Approve do Natal Cellecting Averages

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FIGURE 5.16 (Scribe ed.)

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FIGURE 5.16 (Contracts)

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5.10 How to Debug and Test Programs

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Using Debugger Programs

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Off-by-One Loop Errors

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5.11 Common Programming Errors

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Chapter Review

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Quick-Check Exercises

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Answers to Quick-Check Exercises

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Review Questions

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Programming Projects

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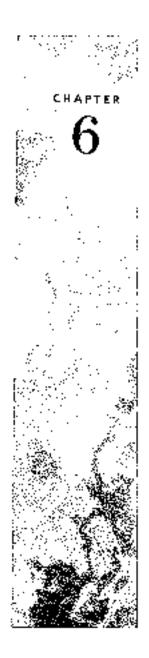
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Modular Programming

- 6.1 FUNCTIONS WITH SIMPLE OUTPUT PARAMETERS.
- 6.2 MULTIPLE CALLS TO A FUNCTION WITH INPUTABILITY PARAMETERS
- 6.3 SCOPE OF NAMES
- 6.4 FORMAL DUTPUL PARAMETERS AS ACTUAL ARGUMENTS
- 6.5 A PROGRAM WITH MULTIPLE FUNCTIONS CASE STUDY ABITHMS HE WITH COMMON FRACTIONS
- 6.4 DEBUGGING AND TOSTING A PROGRAM SYSTEM
- 6.7 COMMON PROGRAMMING ERRORS CHAPTER REVIEW





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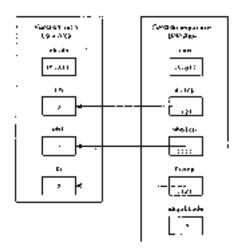
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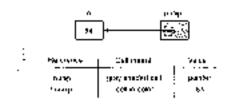
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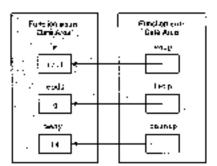


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EXAMPLE 6.2

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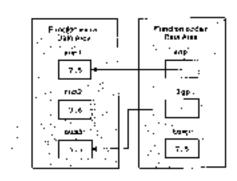
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| | EXENCISES /OH SECTION 6.2

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6.4 Formal Output Parameters as Actual Arguments

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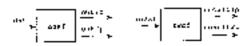
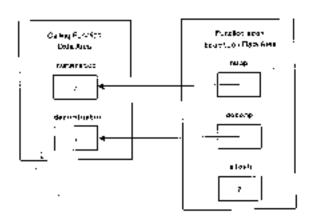


FIGURE 6.10

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6.5 A Program with Multiple Functions

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CASE STUDY Arithmetic with Common Fractions

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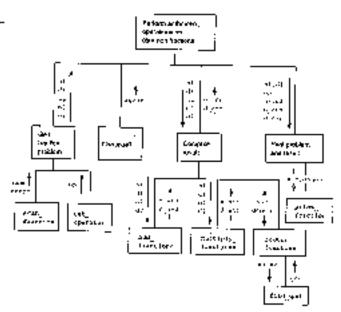
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FIGURE 6.11 Storetime chapters Continues magazin

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FIGURE 6.12 Phogram to Perform Arithmetic Operations to Commen Further's

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FIGURE 6-12 (Applianted)

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FIGURE 6-1) (Continued)

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ET | LEXURCISES FOR SECTION 6/9

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6.6 Debugging and Testing a Program System

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Debugging Tips for Program Systems

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6.7 Common Programming Errors

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Chapter Review

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- 5. The empirical an about first of that swhere it is public referenced to proportion we be always taken to be proportional sowwhere in the bounds of that or do exist AT more anomalies with the total to the first properties of the conditional control to the support to the conditional conditions to the support to the conditional transfer to the properties of the conditional transfer to the first of the support to the first of the conditional transfer to the conditional transfer trans

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Quick-Check Exercises

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- Which of the following is used to not a tone some conversal asted 3.
- Which of the following consol to test program theory request any complete system is direct on a stable.
- The part of type Quarterly earlier tiffer can be releasured as allow the
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- What a viber career of main four time satisfies would you dis point as short to waitass. Name of make tellocating congruent.

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Answers to Quick-Check Exercises

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- 2. input
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- a stub
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Review Questions

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- 2. Why would twig the wester of reach time exhibit a coupling a single numeric of this action other acts of the wood function that in Cambridge and the Coupling research statement pulses the store is a visual function with a continuous processing to an interference.
- Digda a that alternational non-long cold's week and function of all digits as a describing to find the ordinal area functionapper parameters? Answer she sure question furanting any position of
- Which of the tipe consum the soluting program online out rell the forego, george? All functions you deposit of devantages are words, only essentially alternates are conjugal.

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Programming Projects

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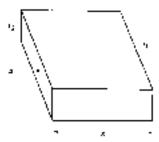
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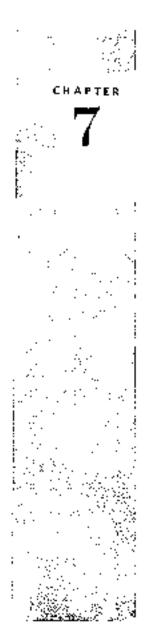
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Simple Data Types

- 7.1 REPRESENTATION AND CONVERSION OF NIJMERIC TYPES
- 7.2 REPRESENTATION AND CONVERSION OF TYPE CHAR
- 7.3 ENUMERATED TYPES
- 7.4 ITERATIVE APPROXIMATIONS
 CASE STUDY, BISECTION METHOD FOR FINDING
 ROOTS
- 7.5 COMMON PROGRAMMING SHHORS CHAPTER REVIEW





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7.1 Representation and Conversion of Numeric Types

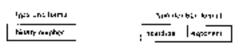
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Explicit Conversion of Data Types

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7.2 Representation and Conversion of Type char

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7.3 Enumerated Types

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■ | FXERCISES FOR SECTION 7.3

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7.4 (terative Approximations

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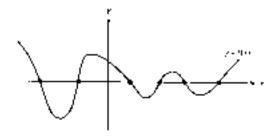
Whenever weak problems can be a level by finding roots of contains. A value k is a root of (r_0, r_0) and (r_0, r_0) and (k, r_0) as k who is the graph the function $f(r_0, r_0)$ as decay in Fig. 7.6. (for or set of reproducts and those is into who is the contains the repulsed that the or intersect. The root of the root mass f(x) = 0 and show all of the product f(x) = 0 and show all of the product f(x) = 0 and show all of the product f(x) = 0 and show all of the product f(x) = 0.

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FIGURE 7.6

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FIGURE 7.7 Has by of michae Presented

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CASE STUDY: Bisection Method for Finding Roots

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ANALYSIS

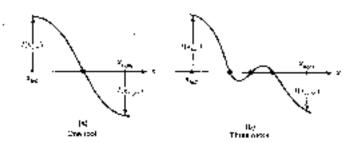
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Let us assume that $|p_{u_0}|$, v_{u_0} d $|v_0|$ late to $|v_0|$ (specific an injected on which the charge $|v_0|$ sign dens exercised in which those is exercity one can. Derivernous sounce that the function $|f(v_0)|$ consumers on this above. If we beset this interval by exequating its molecular $|u_0|$ using the formula

From $a \in 0$ are possible conformed the read is in the lower half of the injected, (e.g., r or b the read is in the inject half of the interval $[\tau_{con}, \tau_{con}]$; or $[t\tau_{con}]$ is zero. Figure 7.9 can so the tenth of passibilities graphically.



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DATA REQUIREMENTS.

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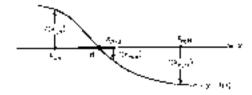
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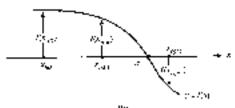
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FIGURE 7.9

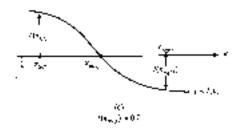
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INCHAL ALGORITHMS

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IMPLEMENTATION

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Figure 7:10. Finding a type tion kapp Using the Brownian Method.

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FIGURE 7.40 (continuing

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TESTING

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Sec ☐ EXERCISES FOR SECTION 7.4.

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7.5 Common Programming Errors

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Chapter Review

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- 10 Notice and surface is the big ordered mathematics and compating section that don't proalgood this for mathematical computation. With the copy of a torse of the two torsette and look, a technique, but detailing a group makes of a result of an increase.

NEW CONSTRUCTS

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Quick-Check Exercises

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Answers to Quick-Check Exercises

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Review Questions

- What are the wearnings of data type (c) over data type double ¹⁰⁰ foll its disorbandayes of type are not a constance.
- Estimate place three computational interest that may make in Approximate expensions
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- 6. Define an extraorogical type framet_s as the more by from July through June 10 of the Association conditioner of type framet_s one original seatch date means controlled to works the dapting tenent of the june jury and Asyond, "Let 12" in expension, october, recomber, extent of the deciration, date is the foreign type transfer, and it is a positive to the condition of the property of the pr
- Write a Continue that would display

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Programming Projects

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Figure 7.12 shows the geometric interpretent into 4. So which's realled whose a_i is the a_i interpretent survey, so give set for the east of exceptions to the relations a_i $C(a_i)$, while dope of the targent to the coverage of the next a_i is the coverage of the caught to see with a con-

From governery or get the equition :

$$\lim_{N\to\infty} \frac{2m}{N} \sum_{n\geq N} |n_n|$$

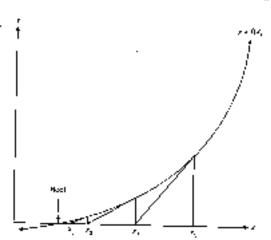
where u is the skylical the line between points α_{ijk}, q_i (and i), q_i . In Fig. (18), u_i , u_j and u_{ijk} a zero q_i is $i(q_i)$ and u is i (type decreases by substituting pad we conjugate as q_i and q_i).

$$-f(x_i) + f''(x_i) \times (x_{i+1} - x_i)$$

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FIGURE 7.12

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When a group and the costs for extends on their transposal can be substituted as the code in all powers $P_{2} = v_{1}$ then $v_{2} = v_{3}$ the individual control of the second equation of grain young. Tool when p_{2} grain on $P_{2} = \Omega_{1}$ and $Q_{1} = \Omega_{2}$ the program condition of P_{2} as its north process. Since we find the arrangement of the control of $Q_{2} = \Omega_{2}$ and $Q_{3} = \Omega_{3}$ the world $Q_{3} = \Omega_{3}$ the find the arrangement of the control of $Q_{3} = \Omega_{3}$.

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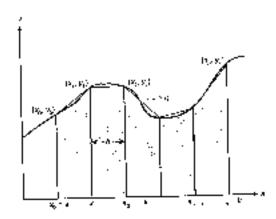
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$$s = \frac{6}{2} \left\{ \mu_{S}(s,t) k_{S} + 2 \sum_{i=1}^{n-1} g_{i,j} \right\}$$

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FIGURE 7.13

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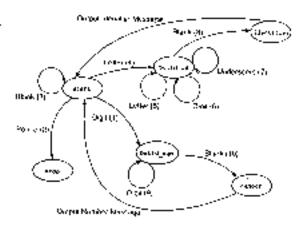
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Arrays

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- 8.2 ARRAY SUBSCRIPTS
- B.3 USING FOR LOOPS FOR SEQUENTIAL ACCESS.
- 8.4 USING ARRAY FLEMENTS AS FUNCTION ARGUMENTS
- 8.5 ARRAY ARGUMENTS
- 8.6 SEARCHING AND SORTING AN ARRAY
- 8.7 MULTIDIMENSIONAL ARRAYS
- 8.8 ARRAY PROCESSING ILLUSTRATED CASE STUDY, ANALYSIS OF SALES DATA
- 8.9 COMMON PROGRAMMING ERRORS
 CHAPTER REVIEW







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8.1 Declaring and Referencing Arrays

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EXAMPLES 1

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JIFJURE 8.1

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table sec.

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EXAMPLE 8.2

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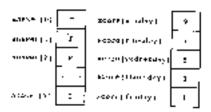
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FIGURE 8.2

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EXAMPLE 8.4

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Array Initialization

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8.2 Array Subscripts

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Statistical Computations Using Arrays

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Using Array Elements as Function Arguments

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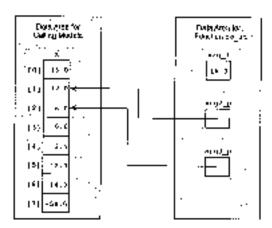
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EXERCISES FOR SECTION 8.4

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8.5 Array Arguments

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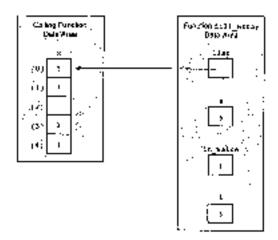
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Arrays as Input Arguments

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FIGURE 8.8

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Returning an Array Result

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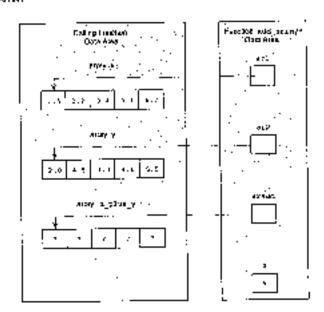
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8.6 Searching and Sorting an Array

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8.7 Multidimensional Arrays

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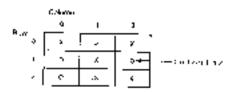
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Initialization of Multidimensional Arrays

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Arrays with Several Dimensions

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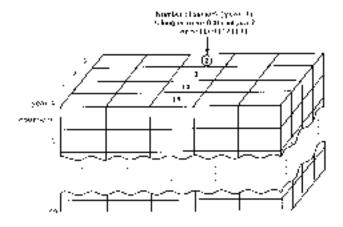
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8.8 Array Processing Illustrated

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CASE STUDY Analysis of Sales Data

PROBLEM

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ANALYSIS

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FIGURE 8.21 - Sales Analysis Output

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8.9 Common Programming Errors

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Chapter Review

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Quick-Check Exercises

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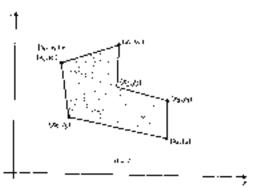
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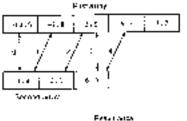
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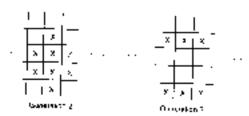
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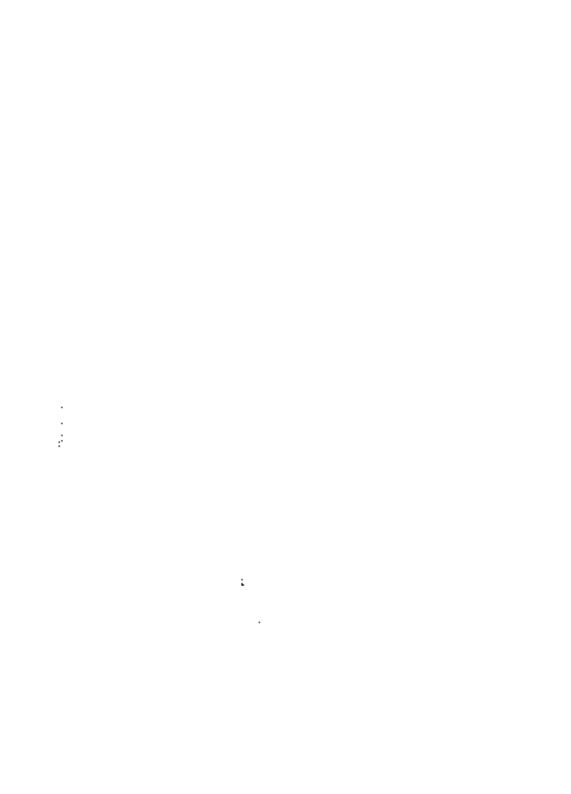


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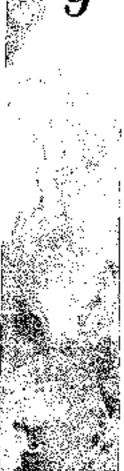
Strings

- 9.1 STRING BASICS
- 9.2 STRING LIBRARY FUNCTIONS: ASSIGNMENT AND SUBSTRINGS
- 9.3 LONGER STRINGS CONCATENATION AND WHOLE-LINE INPUT
- 9.4 STRING COMPARISON
- 9.5 ARSAYS OF POINTERS
- 9.6 CHARACTER OPERATIONS
- 9.7 STRING TO NUMBER AND NUMBER-TO STRING CONVERSION
- 9.8 STAING PROCESSING ILLUSTRATED CASE STUDY, TEXT EDITOR
- 9.9 COMMON PROGRAMMING ERRORS CHAPTER REVIEW



CHAPTER

9



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Declaring and Initializing String Variables

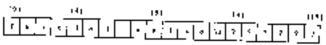
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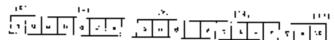
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Input/Output with prietf and scanf

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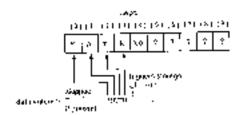
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EXAMPLE 0.1

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■ I EXERCISIN FOR SECTION 9.1

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9.2 String Library Functions: Assignment and Substrings

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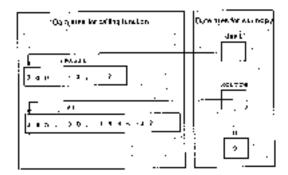
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Participation Transplacements Transplacements



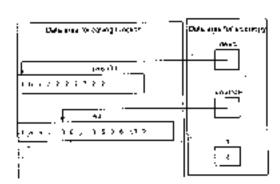
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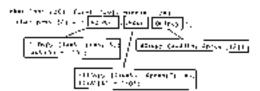
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## FIGURE 9.6

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#### **EXAMPLE 9.2**

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#### EXAMPLE 4.3

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## FIGURE 9.7 Purpose Clark-stroopy prontingly fluctions to Separate Condensate and "Entental's orrigonests."

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## EXPROSES FOR SECTION 4.7

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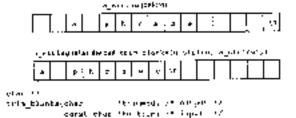
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## 9.3 Longer Strings: Concatenation and Whole-Line Input

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#### Concatenation

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## Distinction Between Characters and Strings

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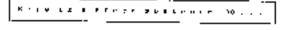


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# EXECUSES FOR SECTION 8.3

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# 9.4 String Comparison

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#### **EXAMPLE 9.5**

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# EXAMPLE 9.6

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# FIGURE 9.9 Through a port string Variage of Turbons of Selection Surface (see year and Explorer Telegraps

FIGURE 9.10 Temberte's nativitive Lapp. for Strong broad

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# FILE EXPROSES FOR SECTION 0.4

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# 9.5 Arrays of Pointers

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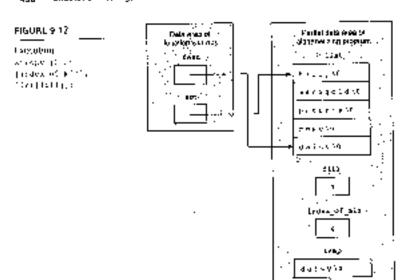


Figure 3. A partners for data area of except and the consider of the olding traction is the second all to except began. This igner is unclear that Consequent edge is not object when our although Society at deforming the first is a choice of the consequent edge is the force of the consequent edge is rectally as the partner of the content of the consequent edge is rectally as the action of the consequence of th

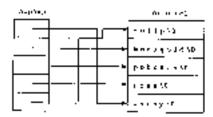
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### FIGURE 0.13

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# 9.6 Character Operations

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## Character Input/Output

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# Character Analysis and Conversion

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### 6.0 BIOMAKS

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#### Programming

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# 9.7 String-to-Number and Number-to-String Conversions

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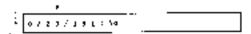
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#### EXAMPLE 9.11

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#### FIGURE 9.18 Combox 40.

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# 9.8 String Processing Illustrated

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# CASE STUDY Text Editor

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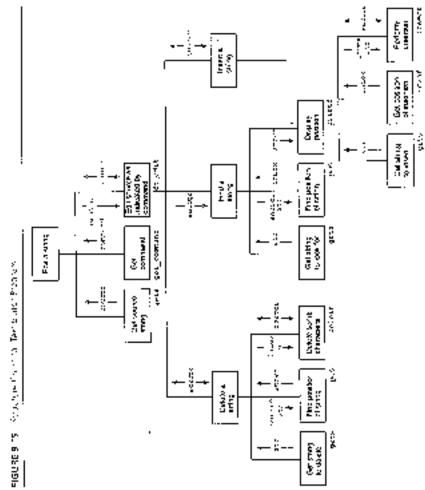
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#### TESTING

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# 9.9 Common Programming Errors

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## Chapter Review

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## **Quick-Check Exercises**

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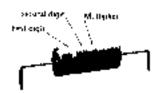
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## Programming Projects

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# Recursion

- 10.1 THE NATURE OF RECURSION
- 10.2 TRACING A REQUESIVE CONCLION
- 10.3 RECURSIVE MATHEMATICAL FUNCTIONS
- 10.4 RECURSIVE FUNCTIONS WITH ARRAY AND STRING PARAMETERS
  CASE STUDY FINDING CAPITAL LETTERS IN A STRING
  CASE STUDY, RECURSIVE SELECTION SORT
- 10.5 PROBLEM SOLVING WHITE RECURSION CASE STUDY OPERATIONS ON SETS
- 10.6 A CLASSIC CASE STUDY IN RECTIRSION; TOWERS OF FIANOI
- 10.7 COMMON PROGRAMMING ERRORS CHAPTER REVIEW



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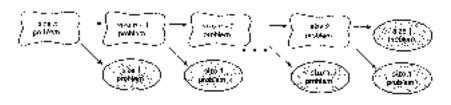
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#### EXAMPLE 10.1

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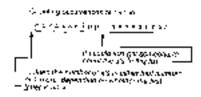


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## ■ LEXENCISES FOR SECTION 16.1

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## 10.2 Tracing a Recursive Function

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## Tracing a Recursive Function That Returns a Value

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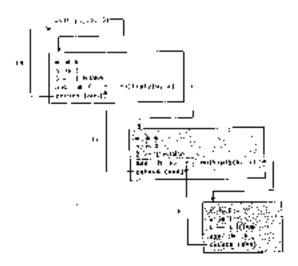
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#### FIGURE 10.5

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## Tracing a void Function That is Recursive

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#### EXAMPLE 10.3

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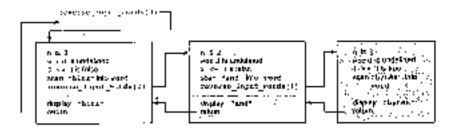
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FIGURE 10.7 Figure all reveries, near system the Words Employate the Principles.



#### RIGURE 10.8

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## Parameter and Local Variable Stacks

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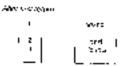


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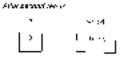
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### EXPRESS FOR SECTION 10.7

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## 10.3 Recursive Mathematical Functions

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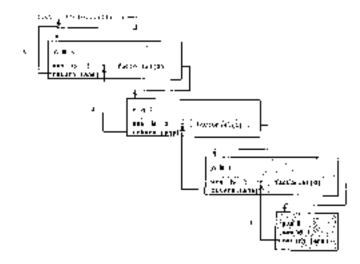
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#### EXAMPLS 10 5

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## 10.4 Recursive Functions with Array and String Parameters

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## CASE STUDY Finding Capital Letters in a String

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#### DATA DEQUIREMENTS

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#### Problem Output

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#### DESIGN

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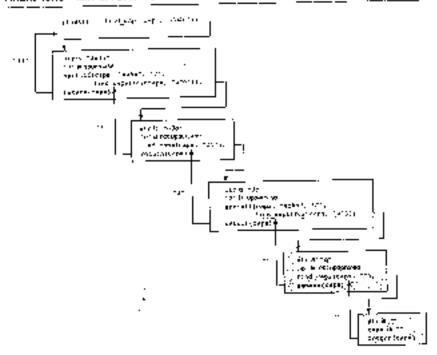


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, CASE STUDY: Recursive Selection Sort

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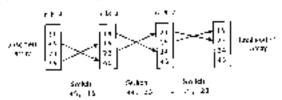


Figure 10 18 in execute operation of this consumed this area time sent shy either. The diagrams in the left shows the resigned ways. Each procequent diagram shows the may after the past largest stoneous in model to us find position in the many. The university is the diaker's slow operands the particle of the many than material after each polytope occurs. Note that a well negative, it must, even exchanges to sent as only within corners.

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10.5 Problem Solving with Recursion

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10.6 A Classic Case Study in Recursion: Towers of Hanoi

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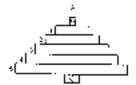
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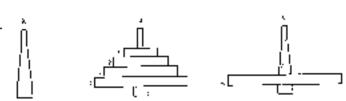
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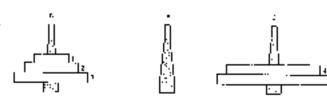
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FIGURE 10.25

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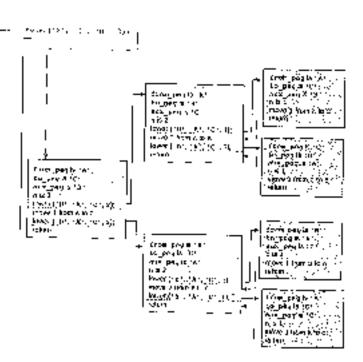
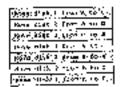


FIGURE 10.26

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§ 11 EXERCISES FOR SECTION 10.6

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: Chapter Review

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Quick-Check Exercises

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Answers to Quick-Check Exercises

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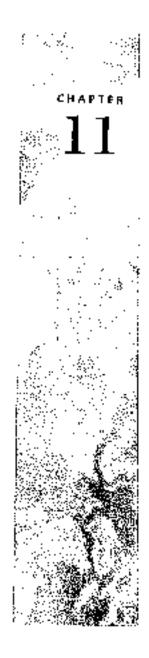
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Structure and Union Types

- 11.1 USER-DEFINED STRUCTURE LYPES
- 11.2 STRUCTURE TYPE DATA AS INPUT AND OUTPU? PARAMETERS
- 11.3 FUNCTIONS WHOSE RESULT VALUES ARE STRUCTURED
- 18.4 PROBLEM SOLVING WITH STRUCTURE TYPES CASE STUDY: A USER-DEFINED TYPE FOR COMPLEX NUMBERS
- 11.5 PARALLEL ARRAYS AND ARRAYS OF STRUCTURES CASC STUDY UNIVERSAL MEASUREMENT CONVERSION
- 11.6 UNION TYPES (OPTIONAL)
- 11.7 COMMON PROGRAMMING ERRORS CHAPTER REVIEW





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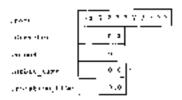
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Manipulating Individual Components of a Structured. Data Object

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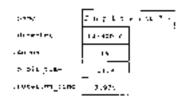
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Review of Operator Precedence

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■ F SERCISES FOR SECTION 11.5

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11.2 Structure Type Data as Input and Output Parameters

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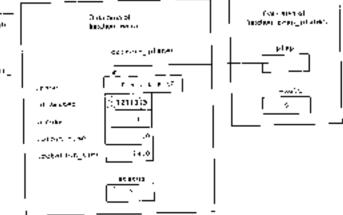
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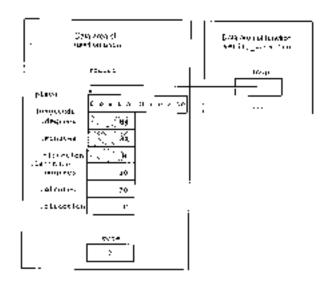
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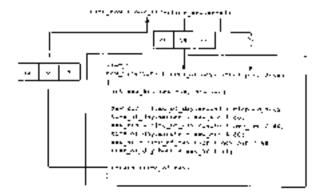


EXERCISES FOR SECTION 11.3

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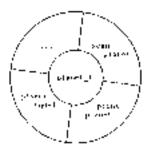
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11.4 Problem Solving with Structure Types

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CASE STUDY: A User-Defined Type for Complex Numbers

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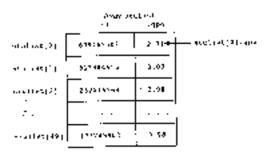
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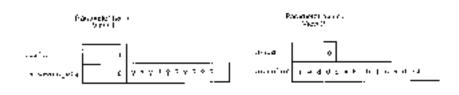
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EXERCISES FOR SECTION 11.6

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Chapter Review

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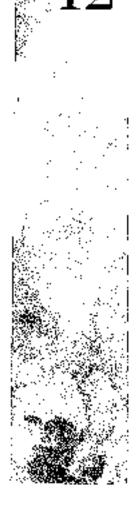
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Text and Binary File Processing

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- 12.3 SEARCHING A DATABASE (NOUNY)
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12.1 Input/Output Files: Review and Further Study

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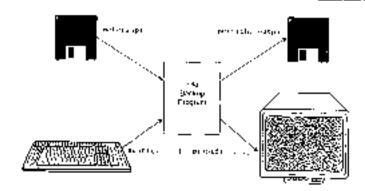
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#A EXERCISES FOR SECTION 12.1

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CASE STUDY: Database Inquiry

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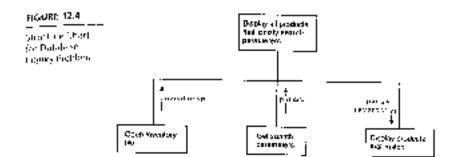


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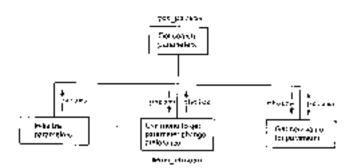
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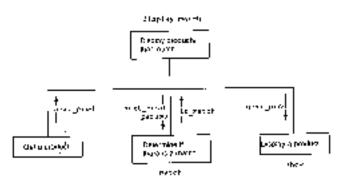
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Chapter Review

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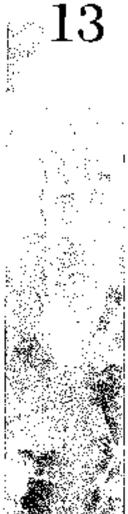
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Programming in the Large

- 18.1 USING ABSTRACTION TO MANAGE COMPLEXITY
- 13.2 PERSONAL LISBARIES, HEADER FILLS
- 13.3 PERSONAL URBARIES IMPLEMENTATION FILES.
- 13.4 STORAGE CLASSES
- F3.5 MODITYING FUNCTIONS FOR INCLUSION IN A LIBRARY
- 13.6 CONDITIONAL COMPILATION
- 13.7 ARGUMENTS TO FUNCTION MAIN
- 13.8 DEFINING MACROS WITH PARAMETERS
- 19.9 COMMON PROGRAMMING ERRORS CHAPTER REVIEW

CHAPTER





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13.2 Personal Libraries: Header Files

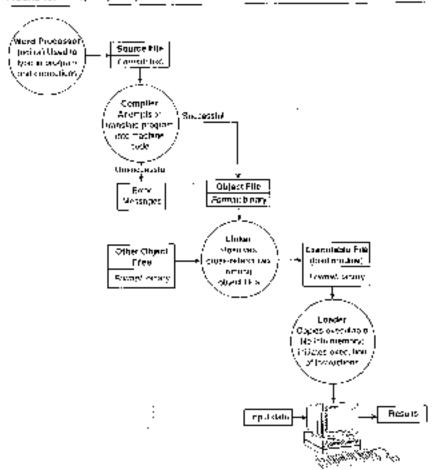
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13.3 Personal Libraries: Implementation Files

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EXERCISES FOR SECTION 13.7

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13.8 Defining Macros with Parameters

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13.9 Common Programming Errors

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Chapter Review

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Quick-Check Exercises

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Answers to Quick-Check Exercises

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Dynamic Data Structures

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- 14.2 DYNAMIC MEMORY ALLOCATION:
- 14.3 LINKED CISTS
- 14.4 LINKED LIST OPERATORS.
- 14.5 PEPRESENTING A STACK WITH A LINKED LIST.
- 14.6 REPRESENTING A QUILLE WITH A LINKED LIST.
- 14.7 ORDERED LISTS

 CASE STUDY, MAINTAINING AN ORDERED LIST OF INTEGERS
- 14.8 BINAHY TREES
- 74.9 COMMON PROGRAMMING ERRORS CHAPTER REVIEW





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EXERCISES FOR SECTION 14.1

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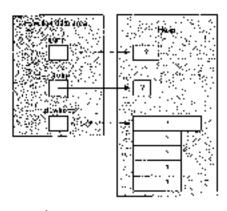
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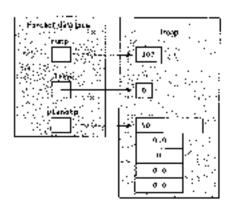
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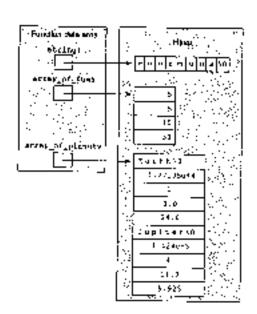
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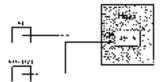
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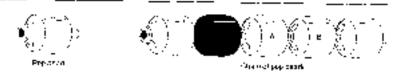
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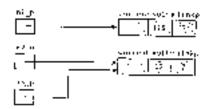
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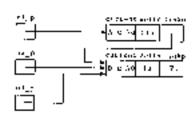


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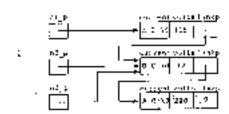
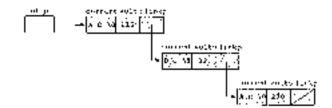


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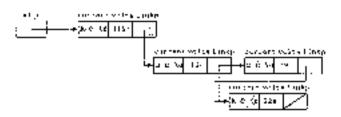
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### Advantages of Linked Lists

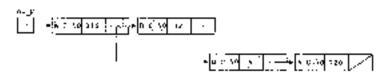
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### 14.4 Linked List Operators

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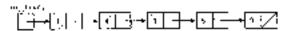
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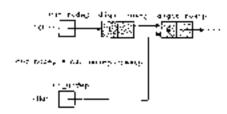


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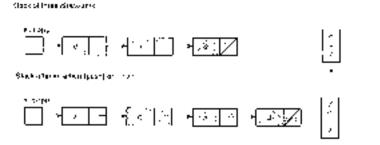
### 14.5 Representing a Stack with a Linked List

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### 14.6 Representing a Queue with a Linked List

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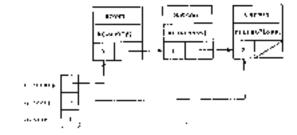
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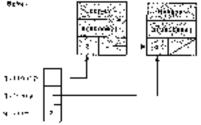
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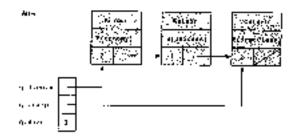
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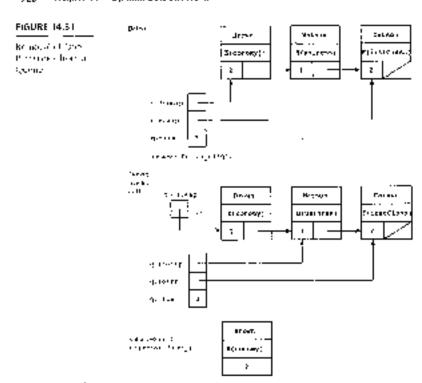
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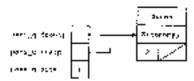
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### CASE STUDY Maintaining an Ordered List of Integers

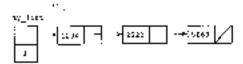
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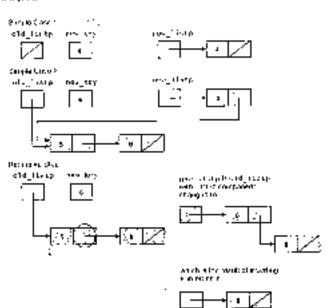


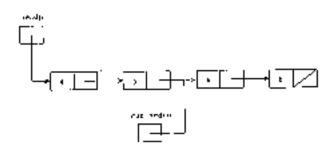
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# 14.8 Binary Trees

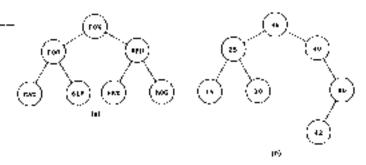
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# Binary Search Tree

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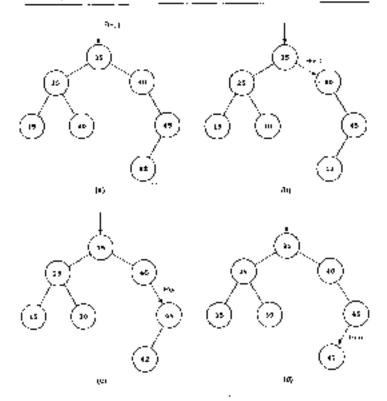
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# Building a Binary Search Tree

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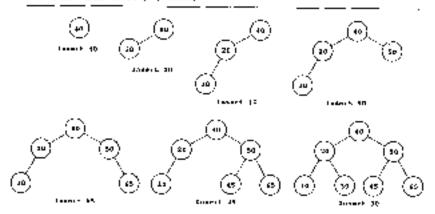
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# FIGURE 14.41 Introduction

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# Displaying a Binary Scarch Tree

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# Videoconferencing from Your PC

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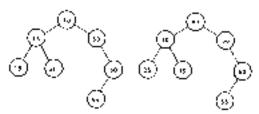
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# EXERCISES FOR SECTION 14.8

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# 14.9 Common Programming Errors

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# : Chapter Review

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# Answers to Quick-Check Exercises

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# Programming Projects

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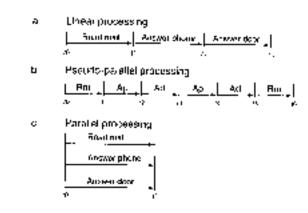
# Multiprocessing Using Processes and Threads

- 15.1 MULTIFASKING
- 15.2 PROCESSES
- 15.3 INTERPROCESS COMMUNICATIONS AND PIPES
- 15.4 THREADS
- 15.5 THREADS ILLUSTRATEDS
  CASE STUDY: THE PROGUCCINCONSUMER MODGL
- 15.6 COMMON PROGRAMMING ERRORS
  CHAPTER REVIEW



FIGURE 25.1

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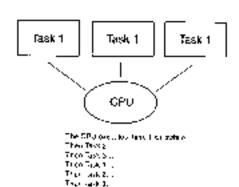
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# EXERCISES FOR SECTION 15.1

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# EXERCISES FOR SECTION 15.7

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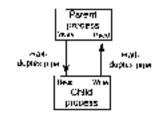
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### Interprocess Communications Using Standard Input

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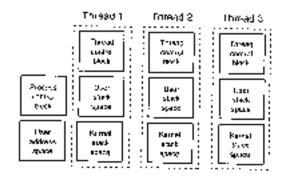
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JIGURE 15.7

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# EXEMCISES FOR SECTION 13.4

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# Chapter Review

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# Review Questions

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# Programming Projects

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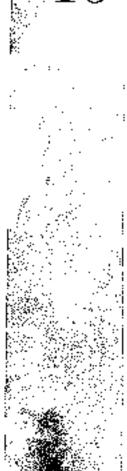
# On to C++

- 16.1 C++ CONTROL STRUCTURES, INPUT/OUTPUT, AND FUNCTIONS
- 16.2 C FE SUPPORT FOR OBJECT ORIENTED PROGRAMMING CHAPTER REVIEW



CHAPTER

16



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## C++ Standard Input/Output

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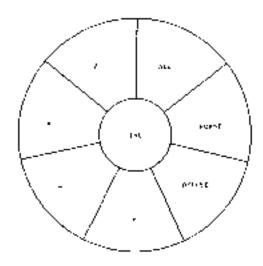
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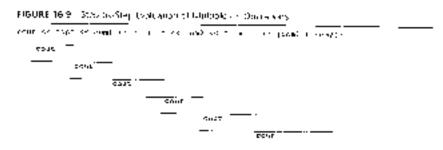
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EXERCISES FOR SECTION 15.2

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Appendix D

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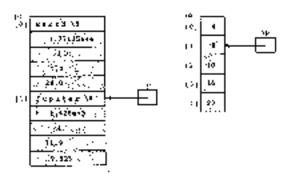


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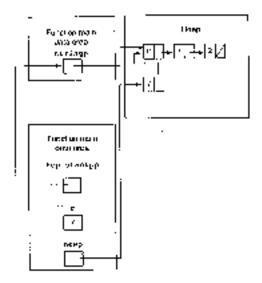
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Appendix E

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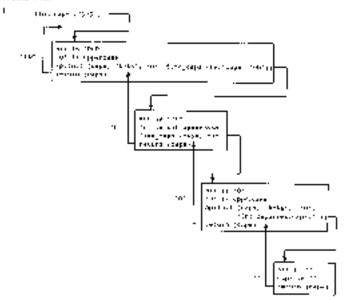
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