

CONTENTS

Preface xv

Part One

INTRODUCTION TO CLINICAL MEDICINE

- | | | |
|-----------|--|-----------|
| 1 | The Practice of Medicine
<i>The Editors</i> | 1 |
| 2 | Ethical Issues in Clinical Medicine
<i>Bernard Lo</i> | 6 |
| 3 | Quantitative Aspects of Clinical Reasoning
<i>Lee Goldman</i> | 9 |
| 4 | Host and Disease: Influence of Demographic and Socioeconomic Factors
<i>Virginia L. Ernster / John M. Colford, Jr.</i> | 14 |
| 5 | Influence of Environmental and Occupational Hazards on Disease
<i>Howard Hu / Frank E. Speizer</i> | 18 |
| 6 | Women's Health
<i>Anthony L. Komaroff / Celeste Robb-Nicholson / Beverly Woo</i> | 21 |
| 7 | Medical Disorders during Pregnancy
<i>Thomas F. Ferris</i> | 24 |
| 8 | Adolescent Health Problems
<i>Charles E. Irwin, Jr. / Mary-Ann Shafer</i> | 30 |
| 9 | Geriatric Medicine
<i>Neil M. Resnick</i> | 37 |
| 10 | Principles of Disease Prevention
<i>Maureen T. Connelly / Thomas S. Inui</i> | 46 |
| 11 | Cost Awareness in Medicine
<i>Lee Goldman</i> | 49 |

Part Two

CARDINAL MANIFESTATIONS AND PRESENTATION OF DISEASES

SECTION 1

PAIN

- | | | |
|-----------|---|-----------|
| 12 | Pain: Pathophysiology and Management
<i>Howard L. Fields / Joseph B. Martin</i> | 53 |
| 13 | Chest Discomfort and Palpitation
<i>Lee Goldman</i> | 58 |
| 14 | Abdominal Pain
<i>William Silen</i> | 65 |
| 15 | Headache
<i>Neil H. Raskin</i> | 68 |
| 16 | Back and Neck Pain
<i>John W. Engstrom / David S. Bradford</i> | 73 |

SECTION 2

ALTERATIONS IN BODY TEMPERATURE

- | | | |
|-----------|---|-----------|
| 17 | Fever and Hyperthermia
<i>Jeffrey A. Gelfand / Charles A. Dinarello</i> | 84 |
| 18 | Fever and Rash
<i>Elaine T. Kaye / Kenneth M. Kaye</i> | 90 |
| 19 | Hypothermia
<i>Kevin J. Petty</i> | 97 |

SECTION 3

NERVOUS SYSTEM DYSFUNCTION

- | | | |
|-----------|---|------------|
| 20 | Faintness, Syncope, Dizziness, and Vertigo
<i>Robert B. Daroff / Joseph B. Martin</i> | 100 |
|-----------|---|------------|

- | | | |
|-----------|--|------------|
| 21 | Weakness, Abnormal Movements, and Imbalance
<i>Richard K. Olney / Michael J. Aminoff</i> | 107 |
|-----------|--|------------|

- | | | |
|-----------|--|------------|
| 22 | Episodic Muscle Spasms, Cramps, and Weakness
<i>Robert C. Griggs</i> | 118 |
|-----------|--|------------|

- | | | |
|-----------|--|------------|
| 23 | Numbness, Tingling, and Sensory Loss
<i>Arthur K. Asbury</i> | 122 |
|-----------|--|------------|

- | | | |
|-----------|---|------------|
| 24 | Acute Confusional States and Coma
<i>Allan H. Ropper / Joseph B. Martin</i> | 125 |
|-----------|---|------------|

- | | | |
|-----------|--|------------|
| 25 | Aphasias and Other Focal Cerebral Disorders
<i>M.-Marsel Mesulam</i> | 134 |
|-----------|--|------------|

- | | | |
|-----------|--|------------|
| 26 | Memory Loss and Dementia
<i>Thomas D. Bird</i> | 142 |
|-----------|--|------------|

- | | | |
|-----------|--|------------|
| 27 | Disorders of Sleep and Circadian Rhythms
<i>Charles A. Czeisler / Gary S. Richardson</i> | 150 |
|-----------|--|------------|

SECTION 4

DISORDERS OF EYES, EARS, NOSE, AND THROAT

- | | | |
|-----------|--|------------|
| 28 | Disorders of the Eye
<i>Jonathan C. Horton</i> | 159 |
|-----------|--|------------|

- | | | |
|-----------|---|------------|
| 29 | Disorders of Smell, Taste, and Hearing
<i>James B. Snow, Jr. / Joseph B. Martin</i> | 173 |
|-----------|---|------------|

- | | | |
|-----------|---|------------|
| 30 | Infections of the Upper Respiratory Tract
<i>Marlene Durand / Michael Joseph / Ann Sullivan Baker</i> | 179 |
|-----------|---|------------|

- | | | |
|-----------|---|------------|
| 31 | Oral Manifestations of Disease
<i>John S. Greenspan</i> | 185 |
|-----------|---|------------|

SECTION 5

ALTERATIONS IN CIRCULATORY AND RESPIRATORY FUNCTIONS

- | | | |
|-----------|---|------------|
| 32 | Dyspnea and Pulmonary Edema
<i>Ronald H. Ingram, Jr. / Eugene Braunwald</i> | 190 |
|-----------|---|------------|

- | | | |
|-----------|---|------------|
| 33 | Cough and Hemoptysis
<i>Steven E. Weinberger / Eugene Braunwald</i> | 194 |
|-----------|---|------------|

- | | | |
|-----------|---|------------|
| 34 | Approach to the Patient with a Heart Murmur
<i>Patrick T. O'Gara / Eugene Braunwald</i> | 198 |
|-----------|---|------------|

- | | | |
|-----------|---|------------|
| 35 | Approach to the Patient with Hypertension
<i>Gordon H. Williams</i> | 202 |
|-----------|---|------------|

- | | | |
|-----------|---|------------|
| 36 | Hypoxia, Polycythemia, and Cyanosis
<i>Eugene Braunwald</i> | 205 |
|-----------|---|------------|

- | | | |
|-----------|---|------------|
| 37 | Edema
<i>Eugene Braunwald</i> | 210 |
|-----------|---|------------|

- | | | |
|-----------|--|------------|
| 38 | Shock
<i>Steven M. Hollenberg / Joseph E. Parrillo</i> | 214 |
|-----------|--|------------|

- | | | |
|-----------|---|------------|
| 39 | Cardiovascular Collapse, Cardiac Arrest, and Sudden Cardiac Death
<i>Robert J. Myerburg / Agustin Castellanos</i> | 222 |
|-----------|---|------------|

SECTION 6

ALTERATIONS IN GASTROINTESTINAL FUNCTION

- | | | |
|-----------|---|------------|
| 40 | Dysphagia
<i>Raj K. Goyal</i> | 228 |
|-----------|---|------------|

- | | | |
|-----------|---|------------|
| 41 | Nausea, Vomiting, and Indigestion
<i>Lawrence S. Friedman / Kurt J. Isselbacher</i> | 230 |
|-----------|---|------------|

- | | | |
|-----------|---|------------|
| 42 | Diarrhea and Constipation
<i>Lawrence S. Friedman / Kurt J. Isselbacher</i> | 236 |
|-----------|---|------------|

- | | | |
|-----------|---|------------|
| 43 | Gain and Loss in Weight
<i>Daniel W. Foster</i> | 244 |
|-----------|---|------------|

44	Gastrointestinal Bleeding <i>Alan Epstein / Kurt J. Isselbacher</i>	246	64	Evaluation of Breast Masses in Men and Women <i>Marc E. Lippman</i>	362
45	Jaundice <i>Lee M. Kaplan / Kurt J. Isselbacher</i>	249			
46	Abdominal Swelling and Ascites <i>Robert M. Glickman / Kurt J. Isselbacher</i>	255			
	SECTION 7 ALTERATIONS IN URINARY FUNCTION AND ELECTROLYTES			Part Three GENETICS AND DISEASE	
47	Cardinal Manifestations of Renal Disease <i>Bradley M. Denker / Barry M. Brenner</i>	258	65	Genetics and Disease <i>Arthur L. Beaudet</i>	365
48	Voiding Dysfunction, Incontinence, and Bladder Pain <i>Philippe E. Zimmern / John D. McConnell</i>	262	66	Cytogenetic Aspects of Human Disease <i>James German</i>	395
49	Fluid and Electrolyte Disturbances <i>Gary G. Singer / Barry M. Brenner</i>	265	67	Treatment and Prevention of Genetic Disease <i>David Valle</i>	403
50	Acidosis and Alkalosis <i>Thomas D. DuBose, Jr.</i>	277			
	SECTION 8 ALTERATIONS IN THE UROGENITAL TRACT			Part Four CLINICAL PHARMACOLOGY	
51	Impotence <i>John D. McConnell / Jean D. Wilson</i>	286	68	Principles of Drug Therapy <i>John A. Oates / Grant R. Wilkinson</i>	411
52	Disturbances of Menstruation and Other Common Gynecologic Complaints in Women <i>Bruce R. Carr / Karen D. Bradshaw</i>	289	69	Adverse Reactions to Drugs <i>Alastair J.J. Wood</i>	422
53	Hirsutism and Virilization <i>William J. Kovacs / Jean D. Wilson</i>	292	70	Physiology and Pharmacology of the Autonomic Nervous System <i>Lewis Landsberg / James B. Young</i>	430
	SECTION 9 ALTERATIONS IN THE SKIN		71	Nitric Oxide: Biologic and Medical Implications <i>Joseph Loscalzo</i>	442
54	Approach to the Patient with Skin Disorders <i>Thomas J. Lawley / Kim B. Yancey</i>	294			
55	Eczema, Psoriasis, Cutaneous Infections, Acne, and Other Common Skin Disorders <i>Robert A. Swerlick / Thomas J. Lawley</i>	298		Part Five NUTRITION	
56	Cutaneous Drug Reactions <i>Bruce U. Wintroub / Robert S. Stern</i>	304	72	Nutrition and Nutritional Requirements <i>Margo Denke / Jean D. Wilson</i>	445
57	Skin Manifestations of Internal Disease <i>Jean L. Bologna / Irwin M. Braverman</i>	310	73	Assessment of Nutritional Status <i>Margo Denke / Jean D. Wilson</i>	448
58	Photosensitivity and Other Reactions to Light <i>David R. Bickers</i>	328	74	Protein and Energy Malnutrition <i>Margo Denke / Jean D. Wilson</i>	452
	SECTION 10 HEMATOLOGIC ALTERATIONS		75	Obesity <i>George A. Bray</i>	454
59	Anemia <i>Robert S. Hillman</i>	334	76	Anorexia Nervosa and Bulimia Nervosa <i>Daniel W. Foster</i>	462
60	Bleeding and Thrombosis <i>Robert I. Handin</i>	339	77	Diet Therapy <i>Cheryl L. Rock / Ann M. Coulston / Mack T. Ruffin IV</i>	465
61	Enlargement of Lymph Nodes and Spleen <i>Patrick H. Henry / Dan L. Longo</i>	345	78	Enteral and Parenteral Nutrition Therapy <i>Lyn Howard</i>	472
62	Disorders of Granulocytes and Monocytes <i>Steven M. Holland / John I. Gallin</i>	351	79	Vitamin Deficiency and Excess <i>Jean D. Wilson</i>	480
	SECTION 11 MANIFESTATIONS OF CANCER		80	Disturbances in Trace Elements <i>Kenneth H. Falchuk</i>	489
63	Presentations of the Patient with Cancer: Solid Tumors in Adults <i>Daniel C. Ihde / Dan L. Longo</i>	360			
				Part Six ONCOLOGY AND HEMATOLOGY	
				SECTION 1 NEOPLASTIC DISORDERS	
			81	Approach to the Patient with Cancer <i>Dan L. Longo</i>	493
			82	Prevention and Early Detection of Cancer <i>Otis W. Brawley / Barnett S. Kramer</i>	499
			83	Cell Biology of Cancer <i>Robert G. Fenton / Dan L. Longo</i>	505

84	Cancer Genetics <i>Francis S. Collins / Jeffrey M. Trent</i>	512	111	Polycythemia Vera and Other Myeloproliferative Diseases <i>Jerry L. Spivak</i>	679
85	Invasion and Metastasis <i>Elise C. Kohn / Lance A. Liotta</i>	520	112	Acute and Chronic Myeloid Leukemias <i>Meir Wetzler / Clara D. Bloomfield</i>	684
86	Principles of Cancer Therapy <i>Christopher A. Slapak / Donald W. Kufe</i>	523	113	Malignancies of Lymphoid Cells <i>Arnold S. Freedman / Lee M. Nadler</i>	695
87	Infections in Patients with Cancer <i>Robert Finberg</i>	537	114	Plasma Cell Disorders <i>Dan L. Longo</i>	712
88	Melanoma and Other Skin Cancers <i>Arthur J. Sober / Howard K. Koh / Nhu-Linh T. Tran / Carl V. Washington, Jr.</i>	543	115	Transfusion Biology and Therapy <i>Jeffrey S. Dzieczkowski / Kenneth C. Anderson</i>	718
89	Head and Neck Cancer <i>Everett E. Vokes</i>	549	116	Bone Marrow Transplantation <i>James O. Armitage</i>	724
90	Neoplasms of the Lung <i>John D. Minna</i>	552	SECTION 3 DISORDERS OF HEMOSTASIS		
91	Breast Cancer <i>Marc E. Lippman</i>	562	117	Disorders of the Platelet and Vessel Wall <i>Robert I. Handin</i>	730
92	Gastrointestinal Tract Cancer <i>Robert J. Mayer</i>	568	118	Disorders of Coagulation and Thrombosis <i>Robert I. Handin</i>	736
93	Tumors of the Liver and Biliary Tract <i>Kurt J. Isselbacher / Jules L. Dienstag</i>	578	119	Anticoagulant, Fibrinolytic, and Antiplatelet Therapy <i>Robert I. Handin</i>	744
94	Pancreatic Cancer <i>Robert J. Mayer</i>	581	Part Seven INFECTIOUS DISEASES		
95	Endocrine Tumors of the Gastrointestinal Tract and Pancreas <i>Lee M. Kaplan</i>	584	SECTION 1 BASIC CONSIDERATIONS IN INFECTIOUS DISEASES		
96	Bladder and Renal Cell Cancer <i>Howard I. Scher / Robert J. Motzer</i>	592	120	Introduction to Infectious Diseases: Host-Parasite Interaction <i>Lawrence C. Madoff / Dennis L. Kasper</i>	749
97	Hyperplasia and Carcinoma of the Prostate <i>Arthur I. Sagalowsky / Jean D. Wilson</i>	596	121	Laboratory Diagnosis of Infectious Diseases <i>Andrew B. Onderdonk</i>	754
98	Testicular Cancer <i>Robert J. Motzer / George J. Bost</i>	602	122	Immunization Principles and Vaccine Use <i>Gerald T. Keusch / Kenneth J. Bart</i>	758
99	Gynecologic Malignancies <i>Robert C. Young</i>	605	123	Health Risks to Travelers <i>J.S. Keystone / P.E. Kozarsky</i>	772
100	Sarcomas of Soft Tissue and Bone <i>Shreyaskumar R. Patel / Robert S. Benjamin</i>	611	SECTION 2 CLINICAL SYNDROMES—COMMUNITY ACQUIRED		
101	Metastatic Cancer of Unknown Primary Site <i>Richard M. Stone</i>	614	124	Sepsis and Septic Shock <i>Robert S. Munford</i>	776
102	Paraneoplastic Syndromes <i>Bruce E. Johnson</i>	618	125	Fever of Unknown Origin <i>Jeffrey A. Gelfand / Charles A. Dinarello</i>	780
103	Paraneoplastic Neurologic Syndromes <i>Robert H. Brown, Jr.</i>	622	126	Infective Endocarditis <i>Donald Kaye</i>	785
104	Oncologic Emergencies <i>Rasim Gucalp / Janice Dutcher</i>	627	127	Intraabdominal Infections and Abscesses <i>Dori F. Zaleznik / Dennis L. Kasper</i>	792
SECTION 2 DISORDERS OF HEMATOPOIESIS			128	Acute Infectious Diarrheal Diseases and Bacterial Food Poisoning <i>Joan R. Butterton / Stephen B. Calderwood</i>	796
105	Hematopoiesis <i>Francis W. Ruscetti / Jonathan R. Keller / Dan L. Longo</i>	634	129	Sexually Transmitted Diseases: Overview and Clinical Approach <i>King K. Holmes / H. Hunter Handsfield</i>	801
106	Iron Deficiency and Other Hypoproliferative Anemias <i>Robert S. Hillman</i>	638	130	Pelvic Inflammatory Disease <i>King K. Holmes</i>	812
107	Disorders of Hemoglobin <i>Ernest Beutler</i>	645	131	Urinary Tract Infections and Pyelonephritis <i>Walter E. Stamm</i>	817
108	Megaloblastic Anemias <i>Bernard M. Babior / H. Franklin Bunn</i>	653	132	Osteomyelitis <i>James H. Maguire</i>	824
109	Hemolytic Anemias and Acute Blood Loss <i>Wendell Rosse / H. Franklin Bunn</i>	659			
110	Aplastic Anemia and Myelodysplasia <i>Hugo Castro-Malaspina / Richard J. O'Reilly</i>	672			

133	Infections of the Skin, Muscle, and Soft Tissues <i>Dennis L. Stevens</i>	827	154	Pertussis <i>George R. Siber / Matthew H. Samore</i>	933
134	Infections (Excluding AIDS) in Injection Drug Users <i>Gerald H. Friedland / Peter A. Selwyn</i>	831	155	Diseases Caused by Gram-Negative Enteric Bacilli <i>Barry I. Eisenstein / Vish Watkins</i>	936
135	Infections from Bites, Scratches, and Burns <i>Lawrence C. Madoff</i>	835	156	<i>Helicobacter</i> Infections <i>John C. Atherton / Martin J. Blaser</i>	941
SECTION 3			157	Infections due to <i>Pseudomonas</i> Species and Related Organisms <i>Matthew Pollack</i>	943
CLINICAL SYNDROMES—NOSOCOMIAL INFECTIONS			158	Salmonellosis <i>Gerald T. Keusch</i>	950
136	Infections in Transplant Recipients <i>Robert Finberg / Joyce Fingeroth</i>	840	159	Shigellosis <i>Gerald T. Keusch</i>	957
137	Hospital-Acquired and Intravascular Device-Related Infections <i>Dori F. Zaleznik</i>	846	160	Infections due to <i>Campylobacter</i> and Related Species <i>Martin J. Blaser</i>	960
138	Infection Control in the Hospital <i>Robert A. Weinstein</i>	849	161	Cholera and Other Vibrioses <i>Gerald T. Keusch / Robert L. Deresiewicz</i>	962
SECTION 4			162	Brucellosis <i>M. Monir Madkour</i>	969
BACTERIAL DISEASES: GENERAL CONSIDERATIONS			163	Tularemia <i>Richard F. Jacobs</i>	971
139	Molecular Mechanisms of Bacterial Pathogenesis <i>Gerald B. Pier</i>	852	164	Plague and Other <i>Yersinia</i> Infections <i>Grant L. Campbell / David T. Dennis</i>	975
140	Treatment and Prophylaxis of Bacterial Infections <i>Gordon L. Archer / Ronald E. Polk</i>	856	165	<i>Bartonella</i> Infections, Including Cat-Scratch Disease <i>Lucy Stuart Tompkins</i>	983
SECTION 5			166	Donovanosis (Granuloma Inguinale) <i>King K. Holmes</i>	986
DISEASES CAUSED BY GRAM-POSITIVE BACTERIA			SECTION 7		
141	Pneumococcal Infections <i>Daniel M. Musher</i>	869	MISCELLANEOUS BACTERIAL INFECTIONS		
142	Staphylococcal Infections <i>Robert L. Deresiewicz / Jeffrey Parsonnet</i>	875	167	Nocardiosis <i>Gregory A. Filice</i>	987
143	Streptococcal and Enterococcal Infections <i>Michael R. Wessels</i>	885	168	Actinomycosis <i>Thomas A. Russo</i>	989
144	Diphtheria, Other Corynebacterial Infections, and Anthrax <i>Randall K. Holmes</i>	892	169	Infections due to Mixed Anaerobic Organisms <i>Dennis L. Kasper</i>	991
145	Infections Caused by <i>Listeria monocytogenes</i> <i>Anne Schuchat / Claire V. Broome</i>	899	SECTION 8		
146	Tetanus <i>Elias Abrutyn</i>	901	MYCOBACTERIAL DISEASES		
147	Botulism <i>Elias Abrutyn</i>	904	170	Antimycobacterial Agents <i>Paul W. Wright / Richard J. Wallace, Jr.</i>	997
148	Gas Gangrene, Antibiotic-Associated Colitis, and Other Clostridial Infections <i>Dennis L. Kasper / Dori F. Zaleznik</i>	906	171	Tuberculosis <i>Mario C. Raviglione / Richard J. O'Brien</i>	1004
SECTION 6			172	Leprosy (Hansen's Disease) <i>Richard A. Miller</i>	1014
DISEASES CAUSED BY GRAM-NEGATIVE BACTERIA			173	Infections due to Nontuberculous Mycobacteria <i>Bernard Hirschel</i>	1019
149	Meningococcal Infections <i>Claus O. Solberg</i>	910	SECTION 9		
150	Gonococcal Infections <i>King K. Holmes / Stephen A. Morse</i>	915	SPIROCHETAL DISEASES		
151	<i>Moraxella</i> (<i>Branhamella</i>) <i>catarrhalis</i>, Other <i>Moraxella</i> Species, and <i>Kingella</i> <i>Daniel M. Musher</i>	922	174	Syphilis <i>Sheila A. Lukehart / King K. Holmes</i>	1023
152	Infections due to <i>Haemophilus influenzae</i>, Other <i>Haemophilus</i> Species, the HACEK Group, and Other Gram-Negative Bacilli <i>Timothy F. Murphy / Dennis L. Kasper</i>	924	175	Endemic Treponematoses <i>Peter L. Perine</i>	1033
153	<i>Legionella</i> Infection <i>Lutfiye Mulazimoglu / Victor L. Yu</i>	928	176	Leptospirosis <i>Peter Speelman</i>	1036
			177	Relapsing Fever <i>David T. Dennis / Grant L. Campbell</i>	1038
			178	Lyme Borreliosis <i>Allen C. Steere</i>	1042

SECTION 10			
RICKETTSIA, MYCOPLASMA, AND CHLAMYDIA			
179	Rickettsial Diseases	1045	
	<i>David Walker / Didier Raoult / Philippe Brouqui / Thomas Murré</i>		
180	Mycoplasma Infections	1052	
	<i>Gail H. Cassell / Gregory C. Gray / K.B. Waites</i>		
181	Chlamydial Infections	1055	
	<i>Walter E. Stamm</i>		
SECTION 11			
VIRAL DISEASES			
182	Medical Virology	1065	
	<i>Fred Wang / Elliott Kieff</i>		
183	Antiviral Chemotherapy	1072	
	<i>Raphael Dolin</i>		
SECTION 12			
DNA VIRUSES			
184	Herpes Simplex Viruses	1080	
	<i>Lawrence Corey</i>		
185	Varicella-Zoster Virus Infections	1086	
	<i>Richard J. Whitley</i>		
186	Epstein-Barr Virus Infections, Including Infectious Mononucleosis	1089	
	<i>Jeffrey I. Cohen</i>		
187	Cytomegalovirus and Human Herpesvirus Types 6, 7, and 8	1092	
	<i>Martin S. Hirsch</i>		
188	Smallpox, Vaccinia, and Other Poxviruses	1095	
	<i>Fred Wang</i>		
189	Parvovirus	1096	
	<i>Neil R. Blacklow</i>		
190	Human Papillomavirus Infections	1098	
	<i>Richard C. Reichman</i>		
SECTION 13			
DNA AND RNA RESPIRATORY VIRUSES			
191	Common Viral Respiratory Infections	1100	
	<i>Raphael Dolin</i>		
SECTION 14			
RNA VIRUSES			
192	The Human Retroviruses	1105	
	<i>Anthony S. Fauci / Dan L. Longo</i>		
193	Influenza	1112	
	<i>Raphael Dolin</i>		
194	Viral Gastroenteritis	1116	
	<i>Harry B. Greenberg</i>		
195	Enteroviruses and Reoviruses	1118	
	<i>Jeffrey I. Cohen</i>		
196	Measles (Rubeola)	1123	
	<i>Anne Gershon</i>		
197	Rubella (German Measles)	1125	
	<i>Anne Gershon</i>		
198	Mumps	1127	
	<i>Anne Gershon</i>		
199	Rabies Virus and Other Rhabdoviruses	1128	
	<i>Lawrence Corey</i>		
200	Infections Caused by Arthropod- and Rodent-Borne Viruses	1132	
	<i>C.J. Peters</i>		
201	Marburg and Ebola Viruses (Filoviridae)	1146	
	<i>Lawrence Corey</i>		
SECTION 15			
FUNGAL INFECTIONS			
202	Diagnosis and Treatment of Fungal Infections	1148	
	<i>John E. Bennett</i>		
203	Histoplasmosis	1150	
	<i>John E. Bennett</i>		
204	Coccidioidomycosis	1151	
	<i>John E. Bennett</i>		
205	Blastomycosis	1152	
	<i>John E. Bennett</i>		
206	Cryptococcosis	1153	
	<i>John E. Bennett</i>		
207	Candidiasis	1154	
	<i>John E. Bennett</i>		
208	Aspergillosis	1156	
	<i>John E. Bennett</i>		
209	Mucormycosis	1158	
	<i>John E. Bennett</i>		
210	Miscellaneous Mycoses and Prototheca Infections	1158	
	<i>John E. Bennett</i>		
211	Pneumocystis carinii Infection	1161	
	<i>Peter D. Walzer</i>		
SECTION 16			
PROTOZOAL AND HELMINTHIC INFECTIONS: GENERAL CONSIDERATIONS			
212	Approach to the Patient with Parasitic Infections	1163	
	<i>Peter F. Weller</i>		
213	Laboratory Diagnosis of Parasitic Infections	1165	
	<i>Charles E. Davis</i>		
214	Therapy for Parasitic Infections	1171	
	<i>Leo X. Liu / Peter F. Weller</i>		
SECTION 17			
PROTOZOAL INFECTIONS			
215	Amebiasis and Infection with Free-Living Amebas	1176	
	<i>Sharon L. Reed</i>		
216	Malaria and Other Diseases Caused by Red Blood Cell Parasites	1180	
	<i>Nicholas J. White / Joel G. Breman</i>		
217	Leishmaniasis	1189	
	<i>Barbara L. Herwaldt</i>		
218	Trypanosomiasis	1193	
	<i>Louis V. Kirchhoff</i>		
219	Toxoplasma Infection	1197	
	<i>Lloyd H. Kasper</i>		
220	Protozoal Intestinal Infections and Trichomoniasis	1202	
	<i>Theodore E. Nash / Peter F. Weller</i>		
SECTION 18			
HELMINTHIC INFECTIONS			
221	Trichinosis and Infections with Other Tissue Nematodes	1206	
	<i>Leo X. Liu / Peter F. Weller</i>		

222	Intestinal Nematodes <i>Leo X. Liu / Peter F. Weller</i>	1208
223	Filariasis and Related Infections (Loiasis, Onchocerciasis, and Dracunculiasis) <i>Thomas B. Nutman / Peter F. Weller</i>	1212
224	Schistosomiasis and Other Trematode Infections <i>Theodore E. Nash</i>	1217
225	Cestodes <i>Thomas B. Nutman / Peter F. Weller</i>	1224
Part Eight		
DISORDERS OF THE CARDIOVASCULAR SYSTEM		
SECTION 1 DIAGNOSIS		
226	Approach to the Patient with Heart Disease <i>Eugene Braunwald</i>	1229
227	Physical Examination of the Cardiovascular System <i>Robert A. O'Rourke / Eugene Braunwald</i>	1231
228	Electrocardiography <i>Ary L. Goldberger</i>	1237
229	Diagnostic Cardiac Catheterization and Angiography <i>Donald S. Baim / William Grossman</i>	1247
SECTION 2 DISORDERS OF RHYTHM		
230	The Bradyarrhythmias: Disorders of Sinus Node Function and AV Conduction Disturbances <i>Mark E. Josephson / Peter Zimetbaum / Francis E. Marchlinski / Alfred E. Buxton</i>	1253
231	The Tachyarrhythmias <i>Mark E. Josephson / Peter Zimetbaum / Alfred E. Buxton / Francis E. Marchlinski</i>	1261
SECTION 3 DISORDERS OF THE HEART		
232	Normal and Abnormal Myocardial Function <i>Eugene Braunwald</i>	1278
233	Heart Failure <i>Eugene Braunwald</i>	1287
234	Cardiac Transplantation <i>John S. Schroeder</i>	1298
235	Congenital Heart Disease in the Adult <i>William F. Friedman / John S. Child</i>	1300
236	Rheumatic Fever <i>Edward L. Kaplan</i>	1309
237	Valvular Heart Disease <i>Eugene Braunwald</i>	1311
238	Cor Pulmonale <i>Eugene Braunwald</i>	1324
239	The Cardiomyopathies and Myocarditides <i>Joshua Wynne / Eugene Braunwald</i>	1328
240	Pericardial Disease <i>Eugene Braunwald</i>	1334
241	Cardiac Tumors, Cardiac Manifestations of Systemic Diseases, and Traumatic Cardiac Injury <i>Wilson S. Colucci / Eugene Braunwald</i>	1341

**SECTION 4
VASCULAR DISEASE**

242	Atherosclerosis <i>Peter Libby</i>	1345
243	Acute Myocardial Infarction <i>Elliott M. Antman / Eugene Braunwald</i>	1352
244	Ischemic Heart Disease <i>Andrew P. Selwyn / Eugene Braunwald</i>	1365
245	Coronary Angioplasty and Other Therapeutic Applications of Cardiac Catheterization <i>Donald S. Baim / William Grossman</i>	1375
246	Hypertensive Vascular Disease <i>Gordon H. Williams</i>	1380
247	Diseases of the Aorta <i>Victor J. Dzau / Mark A. Creager</i>	1394
248	Vascular Diseases of the Extremities <i>Mark A. Creager / Victor J. Dzau</i>	1398

Part Nine
DISORDERS OF THE RESPIRATORY SYSTEM

SECTION 1 DIAGNOSIS		
249	Approach to the Patient with Disease of the Respiratory System <i>Jeffrey M. Drazen / Steven E. Weinberger</i>	1407
250	Disturbances of Respiratory Function <i>Steven E. Weinberger / Jeffrey M. Drazen</i>	1410
251	Diagnostic Procedures in Respiratory Disease <i>Steven E. Weinberger / Jeffrey M. Drazen</i>	1417
SECTION 2 DISEASES OF THE RESPIRATORY SYSTEM		
252	Asthma <i>E.R. McFadden, Jr.</i>	1419
253	Hypersensitivity Pneumonitis and Eosinophilic Pneumonias <i>Gary W. Hunninghake / Hal B. Richerson</i>	1426
254	Environmental Lung Diseases <i>Frank E. Speizer</i>	1429
255	Pneumonia, Including Necrotizing Pulmonary Infections (Lung Abscess) <i>Matthew E. Levison</i>	1437
256	Bronchiectasis <i>Steven E. Weinberger</i>	1445
257	Cystic Fibrosis <i>Richard C. Boucher</i>	1448
258	Chronic Bronchitis, Emphysema, and Airway Obstruction <i>Eric G. Honig / Roland H. Ingram, Jr.</i>	1451
259	Interstitial Lung Diseases <i>Herbert Y. Reynolds</i>	1460
260	Primary Pulmonary Hypertension <i>Stuart Rich</i>	1466
261	Pulmonary Thromboembolism <i>Samuel Z. Goldhaber</i>	1469
262	Disorders of the Pleura, Mediastinum, and Diaphragm <i>Richard W. Light</i>	1472
263	Disorders of Ventilation <i>Eliot A. Phillipson</i>	1476

264	Sleep Apnea <i>Eliot A. Phillipson</i>	1480	285	Disorders of Absorption <i>Norton J. Greenberger / Kurt J. Isselbacher</i>	1616
265	Acute Respiratory Distress Syndrome <i>Eric G. Honig / Roland H. Ingram, Jr.</i>	1483	286	Inflammatory Bowel Disease: Ulcerative Colitis and Crohn's Disease <i>Robert M. Glickman</i>	1633
266	Mechanical Ventilatory Support <i>Edward P. Ingenito / Jeffrey M. Drazen</i>	1486	287	Irritable Bowel Syndrome <i>Richard B. Lynn / Lawrence S. Friedman</i>	1646
267	Lung Transplantation <i>Janet R. Maurer</i>	1491	288	Diverticular, Vascular, and Other Disorders of the Intestine and Peritoneum <i>Kurt J. Isselbacher / Alan Epstein</i>	1648
Part Ten			289	Acute Intestinal Obstruction <i>William Silen</i>	1656
DISORDERS OF THE KIDNEY AND URINARY TRACT			290	Acute Appendicitis <i>William Silen</i>	1658
268	Approach to the Patient with Diseases of the Kidneys and Urinary Tract <i>Fredric L. Coe / Barry M. Brenner</i>	1495	SECTION 2		
269	Disturbances of Renal Function <i>Barry M. Brenner / Harald S. Mackenzie</i>	1498	LIVER AND BILIARY TRACT DISEASE		
270	Acute Renal Failure <i>Hugh R. Brady / Barry M. Brenner</i>	1504	291	Approach to the Patient with Liver Disease <i>Kurt J. Isselbacher / Daniel K. Podolsky</i>	1660
271	Chronic Renal Failure <i>J. Michael Lazarus / Barry M. Brenner</i>	1513	292	Evaluation of Liver Function <i>Daniel K. Podolsky / Kurt J. Isselbacher</i>	1663
272	Dialysis and Transplantation in the Treatment of Renal Failure <i>Charles B. Carpenter / J. Michael Lazarus</i>	1520	293	Derangements of Hepatic Metabolism <i>Daniel K. Podolsky / Kurt J. Isselbacher</i>	1667
273	Pathogenetic Mechanisms of Glomerular Injury <i>Hugh R. Brady / Barry M. Brenner</i>	1529	294	Bilirubin Metabolism and Hyperbilirubinemia <i>Kurt J. Isselbacher</i>	1672
274	The Major Glomerulopathies <i>Hugh R. Brady / Yvonne M. O'Meara / Barry M. Brenner</i>	1536	295	Acute Viral Hepatitis <i>Jules L. Dienstag / Kurt J. Isselbacher</i>	1677
275	Glomerulopathies Associated with Multisystem Diseases <i>Yvonne M. O'Meara / Hugh R. Brady / Barry M. Brenner</i>	1545	296	Toxic and Drug-Induced Hepatitis <i>Jules L. Dienstag / Kurt J. Isselbacher</i>	1692
276	Tubulointerstitial Diseases of the Kidney <i>Barry M. Brenner / Elliott Levy / Thomas H. Hostetter</i>	1553	297	Chronic Hepatitis <i>Jules L. Dienstag / Kurt J. Isselbacher</i>	1696
277	Vascular Injury to the Kidney <i>Kamal F. Badr / Barry M. Brenner</i>	1558	298	Cirrhosis and Alcoholic Liver Disease <i>Daniel K. Podolsky / Kurt J. Isselbacher</i>	1704
278	Hereditary Tubular Disorders <i>John R. Asplin / Fredric L. Coe</i>	1562	299	Major Complications of Cirrhosis <i>Daniel K. Podolsky / Kurt J. Isselbacher</i>	1710
279	Nephrolithiasis <i>John R. Asplin / Fredric L. Coe / Murray J. Favus</i>	1569	300	Infiltrative and Metabolic Diseases Affecting the Liver <i>Kurt J. Isselbacher / Daniel K. Podolsky</i>	1717
280	Urinary Tract Obstruction <i>Julian L. Seifter / Barry M. Brenner</i>	1574	301	Liver Transplantation <i>Jules L. Dienstag</i>	1721
Part Eleven			302	Diseases of the Gallbladder and Bile Ducts <i>Norton J. Greenberger / Kurt J. Isselbacher</i>	1725
DISORDERS OF THE GASTROINTESTINAL SYSTEM			SECTION 3		
SECTION I			DISORDERS OF THE PANCREAS		
DISORDERS OF THE ALIMENTARY TRACT			303	Approach to the Patient with Pancreatic Disease <i>Phillip P. Toskes / Norton J. Greenberger</i>	1737
281	Approach to the Patient with Gastrointestinal Disease <i>Kurt J. Isselbacher / Daniel K. Podolsky</i>	1579	304	Acute and Chronic Pancreatitis <i>Norton J. Greenberger / Phillip P. Toskes / Kurt J. Isselbacher</i>	1741
282	Gastrointestinal Endoscopy <i>Fred E. Silverstein</i>	1583	Part Twelve		
283	Diseases of the Esophagus <i>Raj K. Goyal</i>	1588	DISORDERS OF THE IMMUNE SYSTEM, CONNECTIVE TISSUE, AND JOINTS		
284	Peptic Ulcer and Related Disorders <i>Lawrence S. Friedman / Walter L. Peterson</i>	1596	SECTION 1		
			DISORDERS OF THE IMMUNE SYSTEM		
			305	Introduction to the Immune System <i>Barton F. Haynes / Anthony S. Fauci</i>	1753
			306	The Major Histocompatibility Gene Complex <i>Charles B. Carpenter</i>	1777

307	Primary Immune Deficiency Diseases <i>Max D. Cooper / Alexander R. Lawton III</i>	1783	328	Neuroendocrine Regulation and Diseases of the Anterior Pituitary and Hypothalamus <i>Beverly M.K. Biller / Gilbert H. Daniels</i>	1972
308	Human Immunodeficiency Virus (HIV) Disease: AIDS and Related Disorders <i>Anthony S. Fauci / H. Clifford Lane</i>	1791	329	Disorders of Growth <i>Raymond L. Hintz</i>	1999
309	Amyloidosis <i>Jean D. Sipe / Alan S. Cohen</i>	1856	330	Disorders of the Neurohypophysis <i>Arnold M. Moses / David H.P. Streeten</i>	2003
SECTION 2					
DISORDERS OF IMMUNE-MEDIATED INJURY					
310	Diseases of Immediate Type Hypersensitivity <i>K. Frank Austen</i>	1860	331	Diseases of the Thyroid <i>Leonard Wartofsky</i>	2012
311	Immunologically Mediated Skin Diseases <i>Kim B. Yancey / Thomas J. Lawley</i>	1869	332	Diseases of the Adrenal Cortex <i>Gordon H. Williams / Robert G. Dluhy</i>	2035
312	Systemic Lupus Erythematosus <i>Bevra Hannahs Hahn</i>	1874	333	Pheochromocytoma <i>Lewis Landsberg / James B. Young</i>	2057
313	Rheumatoid Arthritis <i>Peter E. Lipsky</i>	1880	334	Diabetes Mellitus <i>Daniel W. Foster</i>	2060
314	Systemic Sclerosis (Scleroderma) <i>Bruce C. Gilliland</i>	1888	335	Hypoglycemia <i>Daniel W. Foster / Arthur H. Rubenstein</i>	2081
315	Dermatomyositis and Polymyositis <i>Rup Tandan</i>	1896	336	Disorders of the Testes <i>James E. Griffin / Jean D. Wilson</i>	2087
316	Sjögren's Syndrome <i>Haralampos M. Moutsopoulos</i>	1901	337	Disorders of the Ovary and Female Reproductive Tract <i>Bruce R. Carr / Karen D. Bradshaw</i>	2097
317	Ankylosing Spondylitis, Reactive Arthritis, and Undifferentiated Spondyloarthropathy <i>Joel D. Taurog / Peter E. Lipsky</i>	1904	338	Endocrine Disorders of the Breast <i>Jean D. Wilson</i>	2115
318	Behçet's Syndrome <i>Haralampos M. Moutsopoulos</i>	1910	339	Disorders of Sexual Differentiation <i>Jean D. Wilson / James E. Griffin</i>	2119
319	The Vasculitis Syndromes <i>Anthony S. Fauci</i>	1910	340	Disorders Affecting Multiple Endocrine Systems <i>Stephen I. Sherman / Robert F. Gagel</i>	2131
320	Sarcoidosis <i>Ronald G. Crystal</i>	1922	SECTION 2		
DISORDERS OF INTERMEDIARY METABOLISM					
SECTION 3					
DISORDERS OF THE JOINTS					
321	Approach to Articular and Musculoskeletal Disorders <i>John J. Cush / Peter E. Lipsky</i>	1928	341	Disorders of Lipoprotein Metabolism <i>Henry N. Ginsberg / Ira J. Goldberg</i>	2138
322	Osteoarthritis <i>Kenneth D. Brandt</i>	1935	342	Hemochromatosis <i>Lawrie W. Powell / Kurt J. Isselbacher</i>	2149
323	Arthritis due to Deposition of Calcium Crystals <i>Antonio J. Reginato / Gary S. Hoffman</i>	1941	343	The Porphyrrias <i>Robert J. Desnick</i>	2152
324	Infectious Arthritis <i>Scott J. Thaler / James H. Maguire</i>	1944	344	Gout and Other Disorders of Purine Metabolism <i>Robert L. Wortmann</i>	2158
325	Psoriatic Arthritis and Arthritis Associated with Gastrointestinal Disease <i>Peter H. Schur</i>	1949	345	Wilson's Disease <i>I. Herbert Scheinberg</i>	2166
326	Relapsing Polychondritis and Other Arthritides <i>Bruce C. Gilliland</i>	1951	346	Lysosomal Storage Diseases <i>Margaret M. McGovern</i>	2169
Part Thirteen					
ENDOCRINOLOGY AND METABOLISM					
SECTION 1					
ENDOCRINOLOGY					
327	Approach to the Patient with Endocrine and Metabolic Disorders <i>Jean D. Wilson</i>	1965	347	Glycogen Storage Diseases <i>Yuan-Tsong Chen</i>	2176
			348	Inherited Disorders of Connective Tissue <i>Darwin J. Prockop / Helena Kuivaniemi / Gerard Tromp</i>	2183
			349	Inherited Disorders of Amino Acid Metabolism and Storage <i>Louis J. Elsas / Nicola Longo / Leon E. Rosenberg</i>	2194
			350	Inherited Defects of Membrane Transport <i>Louis J. Elsas / Nicola Longo / Leon E. Rosenberg</i>	2203
			351	Galactosemia, Galactokinase Deficiency, and Other Rare Disorders of Carbohydrate Metabolism <i>Kurt J. Isselbacher</i>	2208
			352	The Lipodystrophies and Other Rare Disorders of Adipose Tissue <i>Daniel W. Foster</i>	2209

SECTION 3		373 Diseases of the Spinal Cord	2381
DISORDERS OF BONE AND MINERAL METABOLISM		<i>Stephen L. Hauser</i>	
353 Calcium, Phosphorus, and Bone Metabolism: Calcium-Regulating Hormones	2214	374 Traumatic Injuries of the Head and Spine	2390
<i>Michael F. Holick / Stephen M. Krane / John T. Potts, Jr.</i>		<i>Allan H. Ropper</i>	
354 Diseases of the Parathyroid Gland and Other Hyper- and Hypocalcemic Disorders	2227	375 Tumors of the Nervous System	2398
<i>John T. Potts, Jr.</i>		<i>Stephen M. Sagar / Mark A. Israel</i>	
355 Metabolic Bone Disease	2247	376 Multiple Sclerosis and Other Demyelinating Diseases	2409
<i>Stephen M. Krane / Michael F. Holick</i>		<i>Stephen L. Hauser / Donald E. Goodkin</i>	
356 Disorders of Phosphorus Metabolism	2259	377 Bacterial Meningitis, Brain Abscess, and Other Suppurative Intracranial Infections	2419
<i>James P. Knochel</i>		<i>W. Michael Scheld</i>	
357 Disorders of Magnesium Metabolism	2263	378 Chronic and Recurrent Meningitis	2434
<i>James P. Knochel</i>		<i>Walter J. Koroshetz / Morton N. Swartz</i>	
358 Paget's Disease of Bone	2266	379 Aseptic Meningitis, Viral Encephalitis, and Prion Diseases	2439
<i>Stephen M. Krane</i>		<i>Kenneth L. Tyler</i>	
359 Hyperostosis, Fibrous Dysplasia, and Other Dysplasias of Bone and Cartilage	2269	380 Nutritional and Metabolic Diseases of the Nervous System	2451
<i>Stephen M. Krane / Alan L. Schiller</i>		<i>M. Flint Beal / Joseph B. Martin</i>	
Part Fourteen			
NEUROLOGIC DISORDERS			
SECTION 1			
DIAGNOSIS OF NEUROLOGIC DISORDERS			
360 Approach to the Patient with Neurologic Disease	2277	381 Diseases of the Peripheral Nervous System	2457
<i>Joseph B. Martin / Stephen L. Hauser</i>		<i>Arthur K. Asbury</i>	
361 Electrophysiologic Studies of the Central and Peripheral Nervous Systems	2282	382 Myasthenia Gravis and Other Diseases of the Neuromuscular Junction	2469
<i>Michael J. Aminoff</i>		<i>Daniel B. Drachman</i>	
362 Neuroimaging in Neurologic Disorders	2287	383 Diseases of Muscle	2473
<i>William P. Dillon</i>		<i>Jerry R. Mendell / Robert C. Griggs / Louis J. Ptáček</i>	
363 Molecular Diagnosis of Neurologic Disorders	2293	SECTION 4	
<i>Joseph B. Martin / Frank M. Longo</i>		CHRONIC FATIGUE SYNDROME	
SECTION 2			
DISEASES OF THE CENTRAL NERVOUS SYSTEM			
364 Migraine and the Cluster Headache Syndrome	2307	384 Chronic Fatigue Syndrome	2483
<i>Neil H. Raskin</i>		<i>Stephen E. Straus</i>	
365 Seizures and Epilepsy	2311	SECTION 5	
<i>Daniel H. Lowenstein</i>		PSYCHIATRIC DISORDERS	
366 Cerebrovascular Diseases	2325	385 Mental Disorders	2485
<i>J. Donald Easton / Stephen L. Hauser / Joseph B. Martin</i>		<i>Victor I. Reus</i>	
367 Alzheimer's Disease and Other Primary Dementias	2348	SECTION 6	
<i>Thomas D. Bird</i>		ALCOHOLISM AND DRUG DEPENDENCY	
368 Parkinson's Disease and Other Extrapyrarnidal Disorders	2356	386 Alcohol and Alcoholism	2503
<i>Michael J. Aminoff</i>		<i>Marc A. Schuckit</i>	
369 Ataxic Disorders	2363	387 Opioid Drug Abuse and Dependence	2508
<i>Roger N. Rosenberg</i>		<i>Marc A. Schuckit / David S. Segal</i>	
370 The Motor Neuron Diseases	2368	388 Cocaine and Other Commonly Abused Drugs	2512
<i>Robert H. Brown, Jr.</i>		<i>Jack H. Mendelson / Nancy K. Mello</i>	
371 Disorders of the Autonomic Nervous System	2372	389 Nicotine Addiction	2516
<i>John W. Engstrom / Joseph B. Martin</i>		<i>John H. Holbrook</i>	
372 Disorders of the Cranial Nerves	2377	Part Fifteen	
<i>Joseph B. Martin / M. Flint Beal</i>		ENVIRONMENTAL AND OCCUPATIONAL HAZARDS	
SECTION 3			
DISORDERS OF NERVE AND MUSCLE			

SECTION 1

ILLNESSES DUE TO POISONS, DRUG OVERDOSAGE, AND ENVENOMATION

- 391 **Poisoning and Drug Overdosage** 2523
Christopher H. Linden / Frederick H. Lovejoy, Jr.
- 392 **Disorders Caused by Reptile Bites and Marine Animal Envenomations** 2544
Robert L. Norris / Scott Oslund / Paul S. Auerbach
- 393 **Ectoparasite Infestations and Arthropod Bites and Stings** 2548
James H. Maguire / Andrew Spielman

SECTION 2

SPECIFIC ENVIRONMENTAL AND OCCUPATIONAL HAZARDS

- 394 **Drowning and Near-Drowning** 2555
Jerome H. Modell

Names of contributors and their affiliations are listed in Volume 1, pages xv-xxiv.

- 395 **Electrical Injuries** 2557
Alan R. Dimick
- 396 **Radiation Injury** 2559
L. Chinsoo Cho / Eli Glatstein
- 397 **Heavy Metal Poisoning** 2564
Howard Hu

APPENDICES

- Appendix A: Laboratory Values of Clinical Importance A-1
- Appendix B: Instructions for Collection and Transport of Specimens for Culture A-9

INDEX

INDEX

1-1

1-11

1-12

1-13

1-14

1-15

1-16

1-17

1-18

1-19

1-20

1-21

1-22

1-23

1-24

1-25

1-26

1-27

1-28

1-29

1-30

1-31

1-32

1-33

1-34

1-35

1-36

1-37

1-38

1-39

1-40

1-41

1-42

1-43

1-44

1-45

1-46

1-47

1-48

1-49

1-50

1-51

1-52

1-53

1-54

1-55

1-56

1-57

1-58

1-59

1-60

1-61

1-62

1-63

1-64

1-65

1-66

1-67

1-68

1-69

1-70

1-71

1-72

1-73

1-74

1-75

1-76

1-77

1-78

1-79

1-80

1-81

1-82

1-83

1-84

1-85

1-86

1-87

1-88

1-89

1-90

1-91

1-92

1-93

1-94

1-95

1-96

1-97

1-98

1-99

1-100

1-101

1-102

1-103

1-104

1-105

1-106

1-107

1-108

1-109

1-110

1-111

1-112

1-113

1-114

1-115

1-116

1-117

1-118

1-119

1-120

1-121

1-122

1-123

1-124

1-125

1-126

1-127

1-128

1-129

1-130

1-131

1-132

1-133

1-134

1-135

1-136

1-137

1-138

1-139

1-140

1-141

1-142

1-143

1-144

1-145

1-146

1-147

1-148

1-149

1-150

1-151

1-152

1-153

1-154

1-155

1-156

1-157

1-158

1-159

1-160

1-161

1-162

1-163

1-164

1-165

1-166

1-167

1-168

1-169

1-170

1-171

1-172

1-173

1-174

1-175

1-176

1-177

1-178

1-179

1-180

1-181

1-182

1-183

1-184

1-185

1-186

1-187

1-188

1-189

1-190

1-191

1-192

1-193

1-194

1-195

1-196

1-197

1-198

1-199

1-200

1-201

1-202

1-203

1-204

1-205

1-206

1-207

1-208

1-209

1-210

1-211

1-212

1-213

1-214

1-215

1-216

1-217

1-218

1-219

1-220

1-221

1-222

1-223

1-224

1-225

1-226

1-227

1-228

1-229

1-230

1-231

1-232

1-233

1-234

1-235

1-236

1-237

1-238

1-239

1-240

1-241

1-242

1-243

1-244

1-245

1-246

1-247

1-248

1-249

1-250

1-251

1-252

1-253

1-254

1-255

1-256

1-257

1-258

1-259

1-260

1-261

1-262

1-263

1-264

1-265

1-266

1-267

1-268

1-269

1-270

1-271

1-272

1-273

1-274

1-275

1-276

1-277

1-278

1-279

1-280

1-281

1-282

1-283

1-284

1-285

1-286

1-287

1-288

1-289

1-290

1-291

1-292

1-293

1-294

1-295

1-296

1-297

1-298

1-299

1-300

1-301

1-302

1-303

1-304

1-305

1-306

1-307

1-308

1-309

1-310

1-311

1-312

1-313

1-314

1-315

1-316

1-317

1-318

1-319

1-320

1-321

1-322

1-323

1-324

1-325

1-326

1-327

1-328

1-329

1-330

1-331

1-332

1-333

1-334

1-335

1-336

1-337

1-338

1-339

1-340

1-341

1-342

1-343

1-344

1-345

1-346

1-347

1-348

1-349

1-350

1-351

1-352

1-353

1-354

1-355

1-356

1-357

1-358

1-359

1-360

1-361

1-362

1-363

1-364

1-365

1-366

1-367

1-368

1-369

1-370

1-371

1-372

1-373

1-374

1-375

1-376

1-377

1-378

1-379

1-380

1-381

1-382

1-383

1-384

1-385

1-386

1-387

1-388

1-389

1-390

1-391

1-392

1-393

1-394

1-395

1-396

1-397

1-398

1-399

1-400

1-401

1-402

1-403

1-404

1-405

1-406

1-407

1-408

1-409

1-410

1-411

1-412

1-413

1-414

1-415

1-416

1-417

1-418

1-419

1-420

1-421

1-422

1-423

1-424

1-425

1-426

1-427

1-428

1-429

1-430

1-431

1-432

1-433

1-434

1-435

1-436

1-437

1-438

1-439

1-440

1-441

1-442

1-443

1-444

1-445

1-446

1-447

1-448

1-449

1-450

1-451

1-452

1-453

1-454

1-455

1-456

1-457

1-458

1-459

1-460

1-461

1-462

1-463

1-464

1-465

1-466

1-467

1-468

1-469

1-470

1-471

1-472

1-473

1-474

1-475

1-476

1-477

1-478

1-479

1-480

1-481

1-482

1-483

1-484

1-485

1-486

1-487

1-488

1-489

1-490

1-491

1-492

1-493

1-494

1-495

1-496

1-497

1-498

1-499

1-500