

we can list its elements in a sequence as a_1, a_2, a_3, \dots . The elements of the $\bigcup_{j=0}^m A_j$ can be listed by listing all terms a_{ij} with $i + j = 2$, then all terms a_{ij} with $i + j = 3$, then all terms a_{ij} with $i + j = 4$, and so on. **43.** There are a finite number of bit strings of length n , namely, 2^n . The set of all bit strings is the union of the sets of bit strings of length m for $m = 0, 1, 2, \dots$. Because the union of a countable number of countable sets is countable (see Exercise 41), there are a countable number of bit strings. **45.** For any finite alphabet there are a finite number of strings of length n , whenever n is a positive integer. It follows by the result of Exercise 41 that there are only a countable number of strings from any given finite alphabet. Because the set of all computer programs in a particular language is a subset of the set of all strings of a finite alphabet, which is a countable set by the result from Exercise 36, it is itself a countable set. **47.** Exercise 43 shows that there are only a countable number of computer programs. Consequently, there are only a countable number of computable functions. Because, as Exercise 46 shows, there are an uncountable number of functions, not all functions are computable.

Supplementary Exercises

1. a) \bar{A} b) $A \cap B$ c) $A - B$ d) $\bar{A} \cap \bar{B}$ e) $A \oplus B$
2. Yes. 3. $A - (A - B) = A - (A \cap \bar{B}) = A \cap (A \cap \bar{B}) = A \cap (A \cap B) = (A \cap A) \cap B = B$ 4. $A \cap (A \cup B) = A$ 5. $A \cap B$ 6. $A \cap B$ 7. Let $A = \{1\}$, $B = \emptyset$, $C = \{1\}$. Then $(A - B) - C = \emptyset$, but $A - (B - C) = \{1\}$. 8. No. For example, let $A = B = \{a, b\}$, $C = \emptyset$, and $D = \{a\}$. Then $(A - B) - (C - D) = \emptyset - \emptyset = \emptyset$, but $(A - C) - (B - D) = \{a\} - \{a\} = \emptyset$. 9. No. For example, let $A = \{a, b\} - \{b\} = \{a\}$. 11. a) \emptyset b) $\{a\}$ c) $\{a, b\}$ d) $\{a\}$ e) $\{a, b\}$ f) $\{a, b\}$ g) $\{a, b\}$ h) $\{a, b\}$ i) $\{a, b\}$ j) $\{a, b\}$ k) $\{a, b\}$ l) $\{a, b\}$ m) $\{a, b\}$ n) $\{a, b\}$ o) $\{a, b\}$ p) $\{a, b\}$ q) $\{a, b\}$ r) $\{a, b\}$ s) $\{a, b\}$ t) $\{a, b\}$ u) $\{a, b\}$ v) $\{a, b\}$ w) $\{a, b\}$ x) $\{a, b\}$ y) $\{a, b\}$ z) $\{a, b\}$ 13. a) Yes, no b) Yes, no c) $f^{-1}(x)$ has inverse with $f^{-1}(f^{-1}(x)) = x$, $f^{-1}(f(x)) = x$, $f(f^{-1}(x)) = x$, $f(f(x)) = x$ 15. Let $f(x) = x^2$. Then $f(1) = 1$, $f(2) = 4$, $f(3) = 9$, $f(4) = 16$, $f(5) = 25$, $f(6) = 36$, $f(7) = 49$, $f(8) = 64$, $f(9) = 81$, $f(10) = 100$, $f(11) = 121$, $f(12) = 144$, $f(13) = 169$, $f(14) = 196$, $f(15) = 225$, $f(16) = 256$, $f(17) = 289$, $f(18) = 324$, $f(19) = 361$, $f(20) = 400$. 17. Let $x \in A$. Then $S_f(x) = f(x) = x$. 19. The equation is true if and only if the sum of the fractional parts of x and y is less than 1. 21. The equation is true if and only if either both x and y are integers, or x is not an integer but the sum of the fractional parts of x and y is less than or equal to 1. 23. If x is an integer, then $\{x\} + \{m - x\} = 0 + m - x = m - x$. Otherwise, write x in terms of its integer and fractional parts: $x = n + a$, where $n = \lfloor x \rfloor$ and $0 < a < 1$. In this case $\{x\} + \{m - x\} = a + \{m - n - a\} = a + m - n - a = m - n = m - \lfloor x \rfloor$. 25. Write $n = 24 + 1$ for some integer k . Then $n^2 = 48^2 + 48 + 1$, so $n^2/4 = 12^2 + 12 + \frac{1}{4}$. Therefore, $\{n^2/4\} = \{12^2 + 12 + \frac{1}{4}\} = \frac{1}{4}$. 27. Let $x = m + (r/m) + e$, where m is an integer, r is a nonnegative integer less than m , and e is a real number with $0 \leq e < 1/m$. The left-hand side is $\{m + (r/m) + e\} = \{m + e\}$. On the right-hand side, the terms $\{x\}$ through $\{x + 1\}$ are

$(m + r - 1)/m$ are all just m and the terms from $(x + (m - r))/m$ on are all $m + 1$. Therefore, the right-hand side is $(m - r)m + r(m + 1) = m^2 + r$, as well. 29. 101 31. $a_n = 1$; $a_{2n+1} = m \cdot a_{2n}$ for all $n \geq 0$; and $a_{2n} = m + a_{2n-1}$ for all $n \geq 0$. The next four terms are 5346, 5353, 37471, and 37479.

CHAPTER 3

Section 3.1

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 84

3. *perceptually-motivated* 20

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count = 0
for i in range(100):
    count += 1
    print('Count: %d' % count)

```

5. procedure duplicates (a_1, a_2, \dots, a_n : integers in nondecreasing order)

4. Use \mathcal{D} to show converses the disjunction!

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Keywords: *depression, mood, anxiety, self-esteem, self-concept, self-identity, self-esteem, self-concept, self-identity*

Figure 1. The effect of the concentration of the *Agaricus bisporus* spores on the growth of *Agaricus bisporus* and *Agaricus bisporus* spores.

English

Figure 1

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[illegible]

Age Group	Total (%)	Male (%)	Female (%)	Male (%)	Female (%)
18-24	15	10	20	10	10
25-34	25	20	30	20	20
35-44	30	25	35	25	25
45-54	20	15	25	15	15
55-64	10	5	15	5	5
65+	5	2	10	2	2

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* *unpublished but given in conversation, etc.*

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Figure 1. The effect of the concentration of the inhibitor on the rate of polymerization of α -methylstyrene in the presence of SnCl_4 at 25°C .

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Source: U.S. Census Bureau, *Marriage, Divorce, Remarriage in the 1990s*, Washington, D.C., 1995.

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and the \mathcal{L}_2 norm of the error is

11. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

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13. Linear search: i was 1, j was 2, i was 3, j was 4, i was 5, j was 6, i was 7, location was 7; binary search: i was 1, j was 8, av was 4, i was 5, av was 6, i was 7, av was 7, j was 7, location was 7.

1.5. procedures (overall, $\sigma_1, \sigma_2, \dots, \sigma_n$ inputs)

Further, there is no evidence that the

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