

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)  $\bar{A} \cap \bar{B}$  b)  $A \cap B$  c)  $A - B$  d)  $\bar{A} \cap \bar{B}$  e)  $A \cup B$   
2. Yes. 3.  $A - (A - B) = A - (A \cap \bar{B}) = A \cap (A \cap \bar{B}) = A \cap (\bar{A} \cap B) = (A \cap \bar{A}) \cap B = \emptyset$  4.  $A \cap (A \cap B) = A \cap B$   
5. Let  $A = \{1\}$ ,  $B = \emptyset$ ,  $C = \{1\}$ . Then  $(A - B) - C = \emptyset$ , but  $A - (B - C) = \{1\}$ . 6. No. For example, let  $A = B = \{a, b\}$ ,  $C = \emptyset$ , and  $D = \{a\}$ . Then  $(A - B) - (C - D) = \{a, b\} - \{a\} = \{b\}$ , but  $A - (C - (B - D)) = \{a, b\} - \{b\} = \{a\}$ .  
7. a)  $\{1, 2\} \subseteq \{A \cap B\} \subseteq \{A\} \subseteq \{A \cup B\} \subseteq \{U\}$  b)  $\{1\} \subseteq \{A\} \subseteq \{A \cup B\} \subseteq \{A \cap B\} \subseteq \{A\} \cup \{B\}$  13. a) Yes, no b) Yes, no c)  $f$  has inverse with  $f^{-1}(a) = 3$ ,  $f^{-1}(b) = 4$ ,  $f^{-1}(c) = 2$ ,  $f^{-1}(d) = 1$ ;  $g$  has no inverse. 15. Let  $f(g(a)) = f(b) = 1$ ,  $f(a) = f(a) = 2$ ,  $5 = f(a, c)$ ,  $7 = f(b, d)$ . Then  $f(g(b)) = f(g) = 0$ , but  $f(5)(c) = f(7)(d) = \{1, 2, 4\} \cap \{1, 2\} = \{1, 2\}$ . 17. Let  $x \in A$ . Then  $S_1(g(x)) = \{f(y) \mid y \in C(x)\} = \{f(x)\}$ . By the same reasoning,  $S_2(g(x)) = \{g(x)\}$ . Because  $S_1 = S_2$ , we can conclude that  $\{f(x)\} = \{g(x)\}$ , and so necessarily  $f(x) = g(x)$ . 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  $\lfloor x \rfloor + \lfloor m - x \rfloor = x + m - x = m$ . 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  $\lfloor x \rfloor + \lfloor m - x \rfloor = \lfloor n + a \rfloor + \lfloor m - n - a \rfloor = n + m - n - 1 = m - 1$ .  
25. Write  $n = 2k + 1$  for some integer  $k$ . Then  $n^2 = 4k^2 + 4k + 1$ , so  $n^2/4 = k^2 + k + 1/4$ . Therefore,  $\lfloor n^2/4 \rfloor = k^2 + k + 1$ . But  $(n^2 + 3)/4 = (4k^2 + 4k + 1 + 3)/4 = k^2 + k + 1$ . 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  $\lfloor m + r + me \rfloor = m + r$ . On the right-hand side, the terms  $\lfloor x \rfloor$  through  $\lfloor x$

$(m + r - 1)/m$  are all just  $m$  and the terms from  $(x + (m - r))/m$  on are all  $m + 1$ . Therefore, the right-hand side is  $(m - r)m + r(m + 1) = am + r$ , as well. 29. 101 31.  $a_n = 1$ ;  $a_{2n+1} = m - a_{2n}$  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, *model* par. 1, *f* par. 2, *model* par. 8, *f* par. 3, *model* par. 12, *f* par. 4, *f* par. 5, *f* par. 6, *f* par. 7, *model* par. 14, *f* par. 8, *f* par. 9, *f* par. 10, *f* par. 11.

3. *perpendicular distance* ..... (meters)

**Box 6:** *How do you feel about your current level of physical activity?*

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

4. Use 2 tables (convert the distribution)

1998

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### Discussion

**Abstract**

## Background

Figure 1

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see [Bouillon-Lamer](#) et al. 2000

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Figure 1

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

and  $\beta_1, \beta_2, \beta_3, \beta_4$  in the desired form

7. procedure *list even locations*( $a_1, a_2, \dots, a_n$ ; integers)

**Model of crime.** The model was

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

cell (4) is the observed frequency,  $O$ , of those who are female and

\* *perennial* *perennium* *perennius* ... *perennius*

[illegible]

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**Abstract** *Abstracts of the papers presented at the 1997 Annual Meeting of the American Psychological Association, Washington, DC, August 2-6, 1997.*

and Lemma 1 is true iff  $\sigma_{\text{true}}$  is a real document.

§ 5. *procedura de identificare a...*

100

2000

1000

The minimum number of assignments needed is three.

13. Linear search:  $i$  was 1,  $j$  was 2,  $i$  was 3,  $j$  was 4,  $i$  was 5,  $j$  was 6,  $i$  was 7. Executions was 7. Binary search:  $i$  was 1,  $j$  was 8,  $mid$  was 4,  $i$  was 5,  $mid$  was 6,  $i$  was 7,  $mid$  was 7. Executions was 7.

### 15. *procellaria* (noun) *pro·cel·la·ri·a* (proh-sel-lar-ee-ah) [uncountable]

Other than in the context of  $\mathcal{C}_1$  or  $\mathcal{C}_2$ ,  $\mathcal{C}_1$  and  $\mathcal{C}_2$  are not used.

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1. *Journal of the American Medical Association*, 1997; 278: 1022-1026.

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