2. Part (b)   Let f be a bijection of N_m onto A and let $C = \{f(k)\}$ for some $k \in N_m$. Define g on N_{m-1} by $g(i) := f(i)$ for $i = 1, \ldots, k-1$, and $g(i) := f(i+1)$ for $i = k, \ldots, m-1$. Then g is a bijection of N_{m-1} onto $A \backslash C$. (Why?)
   Part (c)   First note that the union of two finite sets is a finite set. Now note that if C/B were finite, then $C = B \cup (C \backslash B)$ would also be finite.

3. (a) The element 1 can be mapped into any of the three elements of T, and 2 can then be mapped into any of the two remaining elements of T, after which the element 3 can be mapped into only one element of T. Hence there are $6 = 3 \cdot 2 \cdot 1$ different injections of S into T.
   (b) Suppose a maps into 1. If b also maps into 1, then c must map into 2; if b maps into 2, then c can map into either 1 or 2. Thus there are 3 surjections that map a into 1, and there are 3 other surjections that map a into 2.

4. $f(n) := 2n + 13, n \in N$.

5. $f(1) := 0$, $f(2n) := n$, $f(2n+1) := -n$ for $n \in N$.

6. The bijection of Example 1.3.7(a) is one example. Another is the shift defined by $f(n) := n + 1$ that maps N onto $N \backslash \{1\}$.

7. If T_1 is denumerable, take $T_2 = N$. If f is a bijection of T_1 onto T_2, and if g is a bijection of T_2 onto N, then (by Exercise 1.1.21) $g \circ f$ is a bijection of T_1 onto N, so that T_1 is denumerable.

8. Let $A_n := \{n\}$ for $n \in N$, so $\bigcup A_n = N$.

9. If $S \cap T = \emptyset$ and $f : N \to S, g : N \to T$ are bijections onto S and T, respectively, let $h(n) := f((n+1)/2)$ if n is odd and $h(n) := g(n/2)$ if n is even. It is readily seen that h is a bijection of N onto $S \cup T$; hence $S \cup T$ is denumerable. What if $S \cap T \neq \emptyset$?

10. (a) $m + n - 1 = 9$ and $m = 6$ imply $n = 4$. Then $h(6, 4) = \frac{1}{2} \cdot 8 \cdot 9 + 6 = 42$.
    (b) $h(m, 3) = \frac{1}{2}(m+1)(m+2) + m = 19$, so that $m^2 + 5m - 36 = 0$. Thus $m = 4$.

11. (a) $\mathcal{P}(\{1, 2\}) = \{\emptyset, \{1\}, \{2\}, \{1, 2\}\}$ has $2^2 = 4$ elements.
    (b) $\mathcal{P}(\{1, 2, 3\})$ has $2^3 = 8$ elements.
    (c) $\mathcal{P}(\{1, 2, 3, 4\})$ has $2^4 = 16$ elements.

12. Let $S_{n+1} := \{x_1, \ldots, x_n, x_{n+1}\} = S_n \cup \{x_{n+1}\}$ have $n + 1$ elements. Then a subset of S_{n+1} either (i) contains x_{n+1}, or (ii) does not contain x_{n+1}. The induction hypothesis implies that there are 2^n subsets of type (i), since each such subset is the union of $\{x_{n+1}\}$ and a subset of S_n. There are also 2^n subsets of type (ii). Thus there is a total of $2^n + 2^n = 2 \cdot 2^n = 2^{n+1}$ subsets of S_{n+1}.

13. For each $m \in N$, the collection of all subsets of N_m is finite. (See Exercise 12.) Every finite subset of N is a subset of N_m for a sufficiently large m. Therefore Theorem 1.3.12 implies that $\mathcal{F}(N) = \bigcup_{m=1}^{\infty} \mathcal{P}(N_m)$ is countable.

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