

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 $i = 1, \dots, k-1$, and $g(i) := f(i+1)$ for $i = k, \dots, m-1$. Then g is a bijection of N_{m-1} onto $A \setminus C$. (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 $C = B \cup (C \setminus B)$ 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. $f(n) := 2n + 13, n \in \mathbb{N}$.
5. $f(1) := 0, f(2n) := n, f(2n+1) := -n$ for $n \in \mathbb{N}$.
6. The bijection of Example 1.3.7(a) is one example. Another is the shift defined by $f(n) := n + 1$ that maps \mathbb{N} onto $\mathbb{N} \setminus \{1\}$.
7. If T_1 is denumerable, take $T_2 = \mathbb{N}$. If f is a bijection of T_1 onto T_2 , and if g is a bijection of T_2 onto \mathbb{N} , then (by Exercise 1.1.21) $g \circ f$ is a bijection of T_1 onto \mathbb{N} , so that T_1 is denumerable.
8. Let $A_n := \{n\}$ for $n \in \mathbb{N}$, so $\bigcup A_n = \mathbb{N}$.
9. If $S \cap T = \emptyset$ and $f: \mathbb{N} \rightarrow S, g: \mathbb{N} \rightarrow T$ 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 \mathbb{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 $S_{n+1} := \{x_1, \dots, x_n, x_{n+1}\} = S_n \cup \{x_{n+1}\}$ 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 $m \in \mathbb{N}$, the collection of all subsets of N_m is finite. (See Exercise 12.) Every finite subset of \mathbb{N} is a subset of N_m for a sufficiently large m . Therefore Theorem 1.3.12 implies that $\mathcal{F}(\mathbb{N}) = \bigcup_{m=1}^{\infty} \mathcal{P}(N_m)$ is countable.

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