

Hints for exercises in chapter 13

Exercise [13.7.3](#)(d). If $x = 10^K - 1$, then the integers in S_a that are $\leq x$ are the union of the sets $\{a \cdot 10^k \leq n < (a + 1) \cdot 10^k\}$ for $k = 0, 1, 2, \dots, K - 1$.

Exercise [13.7.4](#) One way is to factor the numerator and denominator and note that $(m + 1)^2 - (m + 1) + 1 = m^2 + m + 1$.