- **Exercise 3.75.** [1WH] Prerequisites: [23X]. (Proposed on 2022-12) For each set A and each relation R between elements of A, explain if it is reflective, symmetric, antisymmetric and/or transitive; if it is a order relation, determine if it is total.
 - In $A = \mathbb{N} \setminus \{0\}$, nRm iff the greatest common divisor between n and m is 1
 - In $A = \mathbb{N} \setminus \{0\}$, nRm if and only if n divides m
 - In $A = \mathbb{N} \setminus \{0\}$, nRm if and only if 2n divides m
 - In $A = \mathcal{P}(\mathbb{N})$, aRb if and only if $a \subseteq b$.