

# Introduction to Algorithms, fourth edition

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"A set is a collection of distinguishable objects, called its members or elements. "

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"A set cannot contain the same object more than once,<sup>1</sup> and its elements are not ordered "

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" $\emptyset$  denotes the empty set, "

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" $\mathbb{Z}$  denotes the set of integers, "

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" $\mathbb{R}$  denotes the set of real numbers.  $\mathbb{N}$  denotes the set of natural numbers, "

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"If all the elements of a set  $A$  are contained in a set  $B$ , that is, if  $x \in A$  implies  $x \in B$ , then we write  $A \subseteq B$  and say that  $A$  is a subset of "

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"relation, rather than the proper-subset relation.) Every "

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"Every set is a subset of itself: "

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"A set  $A$  is a proper subset of set  $B$ , written  $A \subset B$ , if  $A \subseteq B$  but  $A \neq B$ . "

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