Introduction to Algorithms, fourth edition

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> A set is a collection of distinguishable objects, called its members or elements.
loc 28982-28984 | Wednesday, November 30, 2022 11:47:15 PM

> A set cannot contain the same object more than once,1 and its elements are not ordered
loc 28988-28989 | Thursday, December 1, 2022 12:55:06 AM

> Ø denotes the empty set,
loc 28992-28993 | Thursday, December 1, 2022 12:55:33 AM

> $\mathbb{Z}$ denotes the set of integers,
loc 28993-28994 | Thursday, December 1, 2022 12:55:37 AM

> $\mathbb{R}$ denotes the set of real numbers. $\mathbb{N}$ denotes the set of natural numbers,
loc 28995-28997 | Thursday, December 1, 2022 12:55:41 AM

> 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
loc 28998-29000 | Thursday, December 1, 2022 8:10:32 PM

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loc 28998-29000 | Thursday, December 1, 2022 8:10:36 PM

> relation, rather than the proper-subset relation.) Every
loc 29002-29003 | Thursday, December 1, 2022 8:13:13 PM

> Every set is a subset of itself:
loc 29003-29003 | Thursday, December 1, 2022 8:13:17 PM

> 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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