COMP11120 Notes

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1 Discrete Structures

1.1 Terminology

A structure consists of certain sets. It also contains elements of these sets, operations on these sets and relations on these sets.

1.2 Carriers to learn

The following carriers must be learnt:

 $\mathbb N$ The set of natural numbers (all whole numbers from 0 to ∞)

 \mathbb{Z} The set of integers (all whole numbers from $-\infty$ to ∞)

 $\mathbb Q$ The set of rational numbers (any integer divided by any other integer - e.g. $\frac{5}{4}=1.25)$

 $\mathbb R$ The set of real numbers (all finite and infinite decimal numbers