



Data Set

1 Why

We want language to talk about a list of elements from a set.

2 Definition

A **data set** is a finite sequence of elements from a set. The **size** of a data set is the number of elements in the sequence.

We call an element of the data set a **record**.

2.1 Notation

Let A be a non-empty set. We usually denote data sets by (a_1, \dots, a_n) . Here we will use (a^1, \dots, a^n) , since often A is itself a set of sequences, and we will want to refer to the i th component of a^1 by a_i^1 .