Records

1 Why

We are interested in building predictors. We can record precepts and postcepts, and use such a sequence to build predictors.

2 Definition

A **record sequence** is a finite sequence of elements from a set. We call an element of the sequence a **record**. We say that the record sequence is **in** the set. A record is an element of the set.

A **paired record sequence** is a record sequence in the product set of two sets. If the first set is a set of precepts and the second set is a set of postcepts, we call the first element in the pair the **precept record** and the second the **postcept record**.

3 Notation

Let $\mathcal{U}$ and $\mathcal{V}$ be sets. Let $(u^1, \ldots, u^n)$ be a record sequence in $\mathcal{U}$. So, for $i = 1, \ldots, n$, $u^i \in \mathcal{U}$. Similarly let $(v^1, \ldots, v^n)$ be a record sequence in $\mathcal{V}$. So, for $i = 1, \ldots, n$, $v^i \in \mathcal{V}$. Then

$((u^1, v^1), \ldots, (v^1, \ldots, v^n))$ is a paired record sequence of precepts and postcepts.