Definition (The category **SetL**) The category **SetL** is defined as follows:

- 1. Objects: lists of sets.
- 2. *Morphisms*: A morphism from **A** to **B** is a list of *n* functions $f_i : \mathbf{A}_i \to \mathbf{B}_i$ such that $\mathbf{A} = \langle \mathbf{A}_1, \dots, \mathbf{A}_n \rangle$ and $\mathbf{B} = \langle \mathbf{B}_1, \dots, \mathbf{B}_n \rangle$.
- 3. *Composition of morphisms:* Composition is given by function composition.
- 4. *Identities*: The identity on an object $\langle \mathbf{A}_1, ..., \mathbf{A}_n \rangle$ is given by $\langle \operatorname{Id}_{\mathbf{A}_1}, ..., \operatorname{Id}_{\mathbf{A}_n} \rangle$.