Definition (Category **Curr**). The *category of currencies* **Curr** is specified by: 1. *Objects*: a collection of currencies.

- 2. Morphisms: given two currencies $\mathbf{c}_1, \mathbf{c}_2$, morphisms between them are currency exchangers $\langle a, b \rangle$ from \mathbf{c}_1 to \mathbf{c}_2 .
 - 3. *Identity morphism:* given a currency \mathbf{c} , its identity morphism is the currency exchanger $\langle 1, 0 \rangle$. We also call such morphisms "trivial currency exchangers".
- 4. *Composition of morphisms:* the composition of morphisms is given by the formula ??.