Definition (Category **Curr**). The *category of currencies* **Curr** is specified by:

1. *Objects:* a collection of currencies.
2. *Morphisms:* given two currencies c_1, c_2, morphisms between them are currency exchangers $\langle a, b \rangle$ from c_1 to c_2.
3. *Identity morphism:* given a currency 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 **??**.