CONSTRAINT GENERATION

```
CGen(\Gamma, x) =
      let a be fresh
      let \forall a_1 \dots a_k . A = \Gamma(x)
      let b_1, \ldots, b_k be fresh
      (a, \{a \stackrel{?}{=} A[b_1/a_1, \dots, b_k/a_k]\})
CGen(\Gamma, MN) =
      let a be fresh
      let (b, C_1) = CGen(\Gamma, M)
      let (c, C_2) = CGen(\Gamma, N)
      (a, C_1 \cup C_2 \cup \{b \stackrel{?}{=} c \to a\})
CGen(\Gamma, \lambda x.M) =
      let a be fresh
      let b be fresh
      let (c, C) = CGen(\Gamma \cup \{x : b\}, M)
      (a, C \cup \{a \stackrel{?}{=} b \rightarrow c\})
```