Continuation-Passing Style

Syntax

Transformation

Call-by-value

```
 \mathcal{E}\llbracket t \rrbracket \ k \\ \mathcal{E}\llbracket s \rrbracket \ k \\ = \mathcal{E}\llbracket s \rrbracket \ k \\ = \mathcal{E}\llbracket s \rrbracket \ k \\ = \mathcal{T}\llbracket t_0 \rrbracket \ \mathcal{T}\llbracket t_1 \rrbracket \ K \\ \mathcal{E}\llbracket t_0 \ s_1 \rrbracket \ K \\ = \mathcal{E}\llbracket s_1 \rrbracket \ (\lambda x_1. \ \mathcal{T}\llbracket t_0 \rrbracket \ x_1 \ K) \\ \mathcal{E}\llbracket s_0 \ t_1 \rrbracket \ K \\ = \mathcal{E}\llbracket s_0 \rrbracket \ (\lambda x_0. \ x_0 \ \mathcal{T}\llbracket t_1 \rrbracket \ K) \\ = \mathcal{E}\llbracket s_0 \rrbracket \ (\lambda x_0. \ \mathcal{E}\llbracket s_1 \rrbracket \ (\lambda x_1. \ x_0 \ x_1 \ K)) \\ \mathcal{E}\llbracket s_0 \ s_1 \rrbracket \ K \\ = \mathcal{E}\llbracket s_0 \rrbracket \ (\lambda x_0. \ \mathcal{E}\llbracket s_1 \rrbracket \ (\lambda x_1. \ x_0 \ x_1 \ K)) \\ = \mathcal{E}\llbracket x \\ = \mathcal{E}\llbracket x_1 \rrbracket \ \mathcal{E}\llbracket x
```

Call-by-name