

A. Haskell Program

```
1 f = \x → x
2 g :: Char
3 g = f 3
```



B. Generated Prolog Predicates

```
1 f(Vf, _) ← Vf = fun(Vx, V1),
2             V1 = Vx.
3 g(Vg, _) ← Vg = char,
4             V1 = fun(V2, Vg),
5             f(V1, _),
6             V2 = int.
7 type_check ← f(_, _), g(_, _).
```