

## GHC Error

```
fac n = if n == 0 then 1 else n * (fac (n == 1))
```

- No instance for (Num Bool) arising from the literal '0'
- In the second argument of '(==)', namely '0'  
In the expression: n == 0  
In the expression:  
if n == 0 then 1 else n \* (fac (n == 1))

## Helium Error

```
fac n = if n == 0 then 1 else n * (fac (n == 1))
```

```
(1,42): Type error in application
expression      : fac (n == 1)
function        : fac
type            : Int -> Int
1st argument    : n == 1
type            : Bool
does not match  : Int
```

## Goanna Error

```
fac n = if n == 0 then 1 else n * (fac (n == 1))
```

Int→Int→Int