## 7. Complete os "?"do diagrama



onde

```
In [1]:
    -- loading Cp.hs
    :load ../src/Cp.hs
```

## Haskell

split' :: forall a b c. (a -> b, a -> c) -> a -> (b, c)

unsplit' :: forall a1 a2 c. (a1 -> (a2, c)) -> (a1 -> a2, a1 -> c)

## Resolução

$$B^A \times C^A \xrightarrow{split} (B \times C)^A$$

$$(B \times C)^A \xrightarrow{unsplit} B^A \times C^A$$

```
In [4]:
    -- testing with length and reverse over a string
    split' (length,reverse) "cp2021"
    p1 (unsplit' (split length reverse)) "luis"
    p2 (unsplit' (split length reverse)) "luis"
    (6,"1202pc")
```

```
(6,"1202pc"
4
"siul"
```