Pratica 05

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Tags	

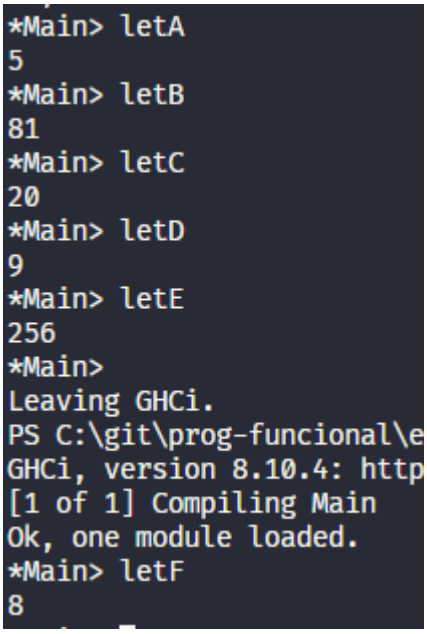
Questão 03

1. $(\lambda x.\ 2x + 1)\ 3 = (2(3) + 1) = 7$
2. $(\lambda xy.\ x - y)\ 5\ 7 = ((5) - (7)) = -2$
3. $(\lambda yx.\ x - y)\ 5\ 7 = ((7) - (5)) = 2$
4. $(\lambda xy.\ x - y)\ (\lambda z.\ z/2) \rightarrow$ Impossível reduzir mais
5. $(\lambda xy.\ x - y)\ ((\lambda z.\ z/2)\ 6)\ 1 = (\lambda xy.\ x - y)\ ((6)/2)\ 1$
   $(\lambda xy.\ x - y)\ 3\ 1 = ((3) - (1)) = 2$
6. $(\lambda x.\ \lambda y.\ -x\ y)\ 9\ 4 = (-9\ 4) = 5$
7. $(\lambda x.\ xx)\ (\lambda y.\ y) = (\lambda y.\ y)(\lambda y.\ y) = (\lambda y.\ y)$

Questão 04

```
*Main> (\x -> x + 3) 5
8
*Main> (\x -> \y -> x * y + 5) 3 4
17
*Main> (\(x,y) -> x * y^2) (3,4)
48
*Main> (\(x,y,_) -> x * y^2) (3,4,2)
48
*Main>  (\xs -> zip xs [1,2,3]) [4,5,6]
[(4,1),(5,2),(6,3)]
```

Questão 05


*Main> letA
5
*Main> letB
81
*Main> letC
20
*Main> letD
9
*Main> letE
256
*Main>
Leaving GHCi.
PS C:\git\prog-funcional\e
GHCi, version 8.10.4: http
[1 of 1] Compiling Main
Ok, one module loaded.
*Main> letF
8