

Homework 8

Due Thursday, 04/07/2016, by 11:55 p.m.

Solutions to problems 1 through 3 should be written using LaTeX. The EXTRA CREDIT (i.e., optional) problem 4 will result only in executable Haskell code. If you do not do the extra credit problem, just turn in a pdf with your solutions to problems 1 through 3. If you also do the extra credit, please zip up all your files (making sure that everything needed to run your program is there), and turn in the zip file.

1. (10 points) Please do problem 11.2 on page 291 of the text. Be sure to explain your answer completely.
2. (10 points) Please compute the meaning of the sentence "Alice helped everyone" using the continuation semantics in chapter 11. You should do this using the lambda calculus, following through the definitions, rather than running the Haskell program. You can find an example of something similar on pages 295 and 296 of the text.
3. (10 points) Please do problem 12.3 on page 310 of our text.
4. (10 points) **EXTRA CREDIT!** Please add adjectives (and the particular adjectives "red" and "dangerous") to the program CPSS.hs (and use your modifications of other relevant files from previous homeworks).

Include sample code in a separate module `TestMyCode.hs` with the following form:

```
import HW5FSynFSoln --Fix these names (& add more imports) as needed!!
import HW5ModelSoln --Fix
import HW8CPSS      --Fix

giantSent = Sent(NP1 Some Giant)
            (VP2 Gave SnowWhite (NP2 The (RCN3 Dangerous Dagger)))

ansGiant = compSent giantSent

main = do
  putStrLn ("Solution to problem 2")
  putStrLn ("Interpreting: "++show(giantSent))
  putStrLn ("It is "++(show ansGiant)++" in our model")
```