

Programming Languages (Coursera / University of Washington)

Assignment 3

8. Write a function `all_answers`

10. Write a function `check_pat` that takes a pattern and returns `true` if and only if all the variables appearing in the pattern are distinct from each other (i.e., use different strings). The constructor names are not relevant. Hints: The sample solution uses two helper functions. The first takes a pattern and returns a list of all the strings it uses for variables. Using `foldl` with a function that uses `@` is useful in one case. The second takes a list of strings and decides if it has repeats. `List.exists` may be useful. Sample solution is 15 lines. These are hints: We are not requiring `foldl` and `List.exists` here, but they make it easier.
11. Write a function `match` that takes a `val u * pattern` and returns a `(string * val u) list option`, namely `NONE` if the pattern does not match and `SOME l st` where `l st` is the list of bindings if it does. Note that if the value matches but the pattern has no patterns of the form `Variable s`, the3-450.ihesultoe74626f -334.5

