Main.hs 1

```
* Find all of the words in the dictionary that have two or more
     * consecutive pairs of letters.
 4: - \}
 5:
 6: module Main
 7: where
8:
 9: import System.IO
                      -- openFile ReadMode
10: import Data.Char
                       -- toLower
11:
12: runs :: Eq a => [a] -> [(Int,a)]
13: runs [] = []
14: runs (x:xs) = runs' (1,x) xs where
15:
    runs' a [] = [a]
    runs' (n,x) (y:ys)
16:
                       = runs' (n+1,x) ys
        х==у
17:
                       = (n,x) : runs' (1,y) ys
18:
        otherwise
19:
20: successivePairsCounts :: [Int] -> [Int]
21: successivePairsCounts (2:xs) = let
     (ys,zs) = span (==2) xs
    in 1+length ys: successivePairsCounts zs
24: successivePairsCounts (_:xs) =
25: successivePairsCounts . dropWhile (/= 2) $ xs
26: successivePairsCounts [] = []
28: maxPairCounts :: Eq a => [a] -> Int
29: maxPairCounts xs = maximum . (0:) . successivePairsCounts . map fst . runs $ xs
30:
31: bookkeeperIsh :: String -> Bool
32: bookkeeperIsh = (> 3) . maxPairCounts
33:
34:
35: getFileContents :: String -> IO String
36: getFileContents dictFile = do
                 <- openFile dictFile ReadMode
37: dictHandle
     fileContents <- hGetContents dictHandle</pre>
38:
39:
     return fileContents
40:
41: dictFileName :: String
42: dictFileName = "/Users/casper/Downloads/finnish-words-kaikkisanat.txt"
43:
44: main :: IO ()
45: main = do
46: fileContents <- getFileContents dictFileName
47: putStr . unlines . filter bookkeeperIsh . lines $ fileContents
```