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-- Example for CGI programming in Curry: a questionnaire
import HTML
import System
import Directory
import Read
import IOExts(exclusiveIO)
-- The parameters of the form:
question = "Who is your favorite actress?"
choices = ["Doris Day","Jodie Foster","Marilyn Monroe",
           "Julia Roberts", "Sharon Stone", "Meryl Streep"]
-- Form for voting:
questForm :: IO HtmlForm
questForm = return $ form "Vote Form"
  ([h1 [htxt question],
    radio_main vref "0", htxt (' ':head choices), breakline] ++
   concatMap (\(i,s)->[radio_other vref (show i), htxt (' ':s), breakline])
             (zip [1..] (tail choices)) ++
   [hrule, button "submit" questHandler])
 where
   vref free
   questHandler env = do
     exclusiveIO (voteFile++".lock")
                 (incNumberInFile (readNat (env vref)))
     evalForm
-- Form for evaluating current votes:
evalForm :: IO HtmlForm
evalForm = do
  votes <- exclusiveIO (voteFile++".lock") readVoteFile</pre>
  return $ form "Evaluation"
```

[h1 [htxt "Current votes:"],

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(zip choices votes))]
-- increment n-th element in a list:
incNth :: [Int] -> Int -> [Int]
incNth [] _ = []
incNth (x:xs) n = if n==0 then (x+1):xs else x:incNth xs (n-1)
-- increment a number in the vote file:
incNumberInFile :: Int -> IO ()
incNumberInFile n = do
  initVoteFile (length choices)
  nums <- readVoteFile</pre>
  writeVoteFile (incNth nums n)
-- initialize data file if necessary:
initVoteFile :: Int -> IO ()
initVoteFile n = do
  existnumfile <- doesFileExist voteFile</pre>
  if existnumfile then done
                  else writeVoteFile (take n (repeat 0))
-- read a file with lines containing numbers and return them in a list:
readVoteFile :: IO [Int]
readVoteFile = do
  vfcont <- readFile voteFile</pre>
  return (map readNat (lines vfcont))
-- write a list of numbers into a file (each number into a line):
writeVoteFile :: [Int] -> IO ()
writeVoteFile nums = do
  writeFile (voteFile++".new") (concatMap (\n->show n++"\n") nums)
  system ("mv "++voteFile++".new "++voteFile)
  done
-- the file where the current numbers of votes are stored:
voteFile = "votes.data"
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table (map (\(s,v)->[[htxt s],[htxt s show v]])

- -- Install the CGI program by:
- -- makecurrycgi -m questForm questionnaire