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-- Informatics 1 Functional Programming
-- Final Exam #2 - December 2009
-- Solutions
import Data.Char
-- Question 1
-- 1a
isSmallDigit x = digitToInt x >= 5
f :: String -> Bool
f xs = and [ isSmallDigit x | x <- xs, isDigit x]
-- 1b
g :: String -> Bool
g [] = True
g (x:xs) | isDigit x = isSmallDigit x && g xs
         | otherwise = g xs
-- 1c
h :: String -> Bool
h xs = foldr (&&) True (map isSmallDigit (filter isDigit xs))
-- Question 2
-- 2a
p :: [a] -> [a]
p[] = []
p xs = concat
  [ [y,x] \mid ((x,y),i) \leftarrow zip (zip xs (tail xs)) [1..], odd i ]
-- 2b
q :: [a] -> [a]
q [] = []
q(x:y:xs) = y : x : q xs
```