```
1.
lst :: [a] -> a
lst [] = error "emptyList"
Ist [x] = x
lst (_:xs) = lst xs
initial :: [a] -> [a]
initial [] = error "emptyList"
initial [_] = []
initial (x:xs) = x : initial xs
repl :: Int -> a -> [a]
repl n x
 | n <= 0 = []
 I otherwise = x : repl (n-1) x
drp :: Int -> [a] -> [a]
drp n xs
 \ln <= 0 = xs
drp _ [] = []
drp n (\_:xs) = drp (n-1) xs
tk :: Int -> [a] -> [a]
tk n _
l n \le 0 = []
tk _ [] = []
tk n (x:xs) = x : tk (n-1) xs
has :: Eq a => a -> [a] -> Bool
has _ [] = False
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has y (x:xs)

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|y| == x = True
 I otherwise = has y xs
concat2 :: [a] -> [a] -> [a]
concat2 [] ys = ys
concat2 (x:xs) ys = x : concat2 xs ys
2.
join :: [Char] -> [[Char]] -> [Char]
join _ []
join [x] = x
join sep (x:xs) = x ++ sep ++ join sep xs
3.
splits :: [a] -> [([a], [a])]
splits xs
 I length xs < 2 = error "shortList"
 I otherwise
              = go 1
 where
  n = length xs
  go ix
   li >= n = []
    I otherwise = (take i xs, drop i xs) : go (i + 1)
4.
rme :: Integral a => a -> a
rme n = helper n 0 1
 where
  helper 0 acc _ = acc
   helper m acc place =
    let (q, r) = m \cdot divMod \cdot 10
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in if odd r
then helper q (acc + r * place) (place * 10)
else helper q acc place
```