## Exercise 11

```
- define
data Month = January | February
    | September | October
    | November | December
  deriving (Show)
 - implement
daysInMonth :: Month -> Integer
daysInMonth m = case m of
 January -> 31
 March -> 31
 July -> 31
  September -> 30
 October -> 31
nextMonth :: Month -> Month
nextMonth m = case m of
 February -> March
 March -> April
 June -> July
  August -> September
  September -> October
 October -> November
 November -> December
 December -> January
nextDay :: Integer -> Month ->
    (Integer, Month)
nextDay d m =
  if d == daysInMonth m
   then (1, nextMonth m)
   else (d+1, m)
```