

```

-- Model solution for Tut08
--
-- Copyright [2001..2004] Manuel M. T. Chakravarty

module Tut08
where

import Prelude hiding (Maybe(..))

import BookVideoCD (Title, Author, Artist, Product(..),
                    getTitle)
import ProductDB    (products)

-- Get all titles of a product list
--
-- Example: getTitles products = ["Snowcrash", "The Pixies", "101 Damnations",
--                                "Underworld", "Consider Phlebas", "Empires",
--                                "The Matrix", "Excession"]
--
getTitles      :: [Product] -> [Title]
getTitles products = map getTitle products

-- This is exactly the definition provided by the Prelude
--
data Maybe a = Nothing | Just a
              deriving (Show)

-- Safe division that returns 'Nothing' in case of a division by zero
--
safeDiv      :: Int -> Int -> Maybe Int
safeDiv x 0  = Nothing
safeDiv x y  = Just (x `div` y)

```