1 The problem

This is a problem 70 from Project Euler.

2 Definitions

This problems deals with $\varphi(n)$ function. This function calculation is based on prime divisors of its argument:

$$\varphi(n) = \prod_{i=1}^{k} p_i^{\alpha_i - 1} \left(p_i - 1 \right)$$

import Data.List (delete,(\\))
import Data.Maybe (maybeToList)
import Control.Monad (guard)