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```
infixl 8 **
a ** b | b >= 0 =
  let accum x y z | z == 0    = x
                  | otherwise =
                      let aux = if (z `mod` 2 == 1) then x * y else x
                      in accum aux (y * y) (z `div` 2)
  in accum 1 a b

-- test = map (2**) [0,10,20,30,40]
-- expect: [1,1024,1048576,1073741824,1099511627776]
```