

```

1 -- | Some useful functions.
2 module Utils (
3     if', atLeast, flipL, flipR, select, combinations, merge
4 ) where
5
6 import           Data.List (subsequences, transpose)
7
8 -- | If-Then-Else without syntactic sugar.
9 if' :: Bool -> a -> a -> a
10 if' True = const
11 if' _     = flip const
12
13 -- | Case without syntactic sugar.
14 select :: a -> [(Bool, a)] -> a
15 select = foldr $ uncurry if'
16
17 -- | Tests if given list's size is at least of n.
18 atLeast :: Int -> [a] -> Bool
19 atLeast 0 = const True
20 atLeast n = not . null . drop (n - 1)
21
22 -- | Flip for functions with 3 parameters. Puts the first one on last.
23 flipL :: (a -> b -> c -> d) -> b -> c -> a -> d
24 flipL f b c a = f a b c
25
26 -- | Flip for functions with 3 parameters. Puts the last one on first.
27 flipR :: (a -> b -> c -> d) -> c -> a -> b -> d
28 flipR f c a b = f a b c
29
30 -- | Generates the combinations of K distinct objects chosen from the N elements of a list.
31 combinations :: Int -> [a] -> [[a]]
32 combinations k = filter ((k==) . length) . subsequences
33
34 -- | Merges two lists.
35 merge :: [a] -> [a] -> [a]
36 merge l r = concat $ transpose [l, r]
37

```