benchmark results

for elm-rope

List

all

	runs / second		goodness of fit
recursive	143,463	▭▭▭▭▭	98.38%
not (any (not ...))	99,820	▭▭▭▭	98.01%
not (any isBad) with let isBad = not ...	96,240	▭▭▭	98.97%
not (any (not << ...))	47,067	▭▭	98.87%

Rope
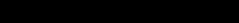
foldl

	runs / second		goodness of fit
custom with module-level helper	9,349	▭▭▭▭	98.3%
custom	9,306	▭▭▭▭	99.2%
nested	9,186	▭▭▭▭	98.4%
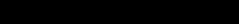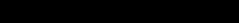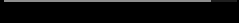
foldr

	runs / second		goodness of fit
custom with module-level helper	8,244	▭▭▭▭	98.85%
nested	7,759	▭▭▭▭	99.04%
custom	7,374	▭▭▭	99.17%
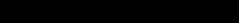
toList

	runs / second		goodness of fit
with foldr	7,083	▭▭▭▭	98.4%
with foldr preserving last list	6,794	▭▭▭▭	99%
with foldl |> reverse	4,874	▭▭▭	99.54%

all
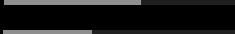
	runs / second		goodness of fit
nested	2,684,099	▭▭▭▭	99.05%
not (any (not ...))	2,369,150	▭▭▭▭	99.15%

sum (also applies to product)

	runs / second		goodness of fit
with foldl	8,898	▭▭▭▭	99.2%
nested	8,643	▭▭▭▭	98.79%
with foldr	7,608	▭▭▭	98.73%

minimum (also applies to maximum)

	runs / second		goodness of fit
with nested fold	5,494	▭▭▭▭	98.93%
with filterMap	4,732	▭▭▭	99.37%
with foldl	4,471	▭▭▭	99.44%
with foldr	4,461	▭▭▭	99.39%

reverse

	runs / second		goodness of fit
foldl to flat	7,785	▭▭▭▭	98.96%
keep nested	6,952	▭▭▭	99.02%
foldr to end to flat	3,676	▭▭	99.33%

filter

	runs / second		goodness of fit
keep nested	6,225	▭▭▭▭	99.13%
foldr to flat	6,001	▭▭▭	99.11%
foldl |> reverse to flat	4,626	▭▭▭	98.2%

foldl to end to flat	4,028		98.82%

filterMap

	runs / second		goodness of fit
foldr to flat	5,295		98.74%
foldl |> reverse to flat	4,217		98.69%
foldl to end to flat	3,653		98.92%
keep nested	3,165		98.92%

map

	runs / second		goodness of fit
keep nested	5,439		98.61%
foldr to flat	5,148		98.44%
foldl |> reverse to flat	3,899		99.06%

indexedMap

	runs / second		goodness of fit
with foldl |> reverse	3,271		99.21%
with foldl to end	3,018		98.55%

concat

	runs / second		goodness of fit
nested	180,800		98.46%
with :: fold to Node	36,843		98.92%
with append	35,959		99.02%

concatMap

	runs / second		goodness of fit
with :: fold to Node	3,358		98.76%
nested	3,301		98.84%
with append	2,593		98.4%

length

	runs / second		goodness of fit
nested	10,503		98.45%
with foldl	9,329		98.93%
with foldr	7,830		98.45%

isEmpty

	runs / second		goodness of fit
nested	45,193		99.18%
with foldl	26,724		98.83%
with foldr	17,470		98.52%