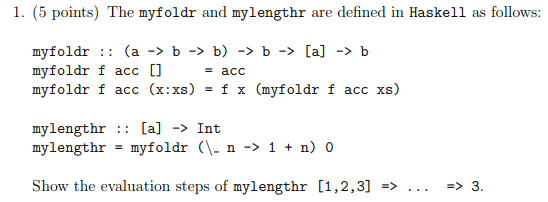
Bryan Duong

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CECS 424 Assignment 11



myfoldr (\\_ n 🡪 1 + n) 0 [1,2,3]

= (\\_ n 🡪 1 + n) 1 (myfoldr (\\_ n 🡪 1 + n) 0 [2,3])

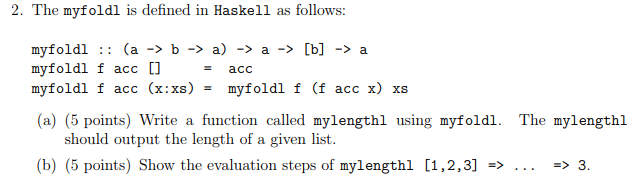
= (\\_ n 🡪 1 + n) 1 ((\\_ n 🡪 1 + n) 2 (myfoldr (\\_ n 🡪 1 + n) 0 [3]))

= (\\_ n 🡪 1 + n) 1 ((\\_ n 🡪 1 + n) 2 (((\\_ n 🡪 1 + n) 3 0))

= (\\_ n 🡪 1 + n) 1 ((\\_ n 🡪 1 + n) 2 1)

= (\\_ n 🡪 1 + n) 1 2

= 3



1. mylengthl = myfoldl (\n \_ 🡪 n + 1) 0
2. mylengthl [1,2,3]

= myfoldl (\n \_ 🡪 n+1) 0 [1,2,3]

= myfoldl (\n \_ 🡪 n+1) ((\n \_ 🡪 n+1) 0 1) [2, 3]

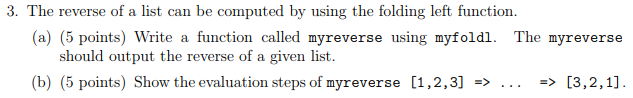
= myfoldl (\n \_ 🡪 n+1) ((\n \_ 🡪 n+1) ((\n \_ 🡪 n+1) 0 1 ) 2)) [3]

= ((\n \_ 🡪 n+1) ((\n \_ 🡪 n+1) ((\n \_ 🡪 n+1) 0 1 ) 2) 3)

= ((\n \_ 🡪 n+1) ((\n \_ 🡪 n+1) 1 2) 3)

= ((\n \_ 🡪 n+1) 2 3)

= 3



1. myreverse = myfoldl (\n m 🡪 m : n) [ ]
2. myreverse [1,2,3]

= myfoldl (\n m 🡪 m : n) [ ] [1,2,3]

= myfoldl (\n m 🡪 m : n) ((\n m 🡪 m : n) [ ] 1) [2,3]

= myfoldl (\n m 🡪 m : n) ((\n m 🡪 m : n) ((\n m 🡪 m : n) [ ] 1) 2) [3]

= ((\n m 🡪 m : n) ((\n m 🡪 m : n ) ((\n m 🡪 m : n) [ ] 1) 2) 3)

= ((\n m 🡪 m : n) ((\n m 🡪 m : n) [1] 2) 3)

= ((\n m 🡪 m : n) [2,1] 3)

= [3,2,1]