



Programming Languages

CS 251
Fall 2021

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Map, Filter, Fold Practice

One of these things is not like the others
(HOF edition)



Get Class Colors

```
(get-class-colors (list 2022 2024 2025 2022))  
'("purple" "green" "yellow" "purple")
```

Get Class Colors

```
(get-palindromes (list "racecar" "radar" "is" "here" "!"))  
'("racecar" "radar" "!")
```

Get Class Colors

```
(calc-word-lengths (list "racecar" "radar" "is" "here" "!"))  
'(7 5 2 4 1)
```

Get Consonants

```
(get-consonants (list "p" "u" "m" "p" "k" "i" "n"))  
'("p" "m" "p" "k" "n")
```

Get Smiles

```
(get-smiles (list ":" )" ": (" ": > )" "; )" ": o"))  
'(": )" ": > )" "; )")
```

Cheer

```
(cheer (list ":" )" ": (" ": > )" "; )" ": o"))  
'(": )" ": )" ": > )" "; )" ": )")
```

Get leaves

```
(get-leaves (list '(1) 2 3 '(4) '((5)) 6))  
'(2 3 6)
```

Get largest

```
(largest (list 1 4 12 5 7))  
12
```

Calculate sentence length

```
(calc-sentence-length (list "I'm" "a" "little" "teapot."))  
4
```