

Day 4 python

```
#Answer 1
from collections import Counter
arr = [1,2,2,3,3,4,4,4,4,5,5,5,5,5]
freq = Counter(arr)
sort = sorted(arr, key=lambda x: (-freq[x], x))
print(sort)
```

```
C:\Users\Aakrosh.LAPTOP-PGDD34UG\AppData\Local\Programs\Python\Python310\python.exe C:\Users\Aakrosh.LAPTOP-PGDD34UG\Documents\Python Scripts\Q1.py
[5, 5, 5, 5, 5, 4, 4, 4, 4, 2, 2, 3, 3, 1]
```

```
# #Answer 2
x = lambda s, ch: s.startswith(ch)
print(x("hello", "h"))
print(x("world", "h"))
```

```
C:\Users\Aakrosh.LAPTOP-PGDD34UG\AppData\Local\Programs\Python\Python310\python.exe C:\Users\Aakrosh.LAPTOP-PGDD34UG\Documents\Python Scripts\Q2.py
True
False
```

```
# #Answer 3
lst = ["python", "lambda", "coding", "filter", "length", "sixsix", "short"]
res = list(filter(lambda w: len(w) == 6, lst))
print(res)
```

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C:\Users\Aakrosh.LAPTOP-PGDD34UG\AppData\Local\Programs\Python\Python310\python.exe C:\Users\Aakrosh.LAPTOP-PGDD34UG\Documents\Python Scripts\Q3.py
['python', 'lambda', 'coding', 'filter', 'length', 'sixsix']
```

```
# #Answer 4
from functools import reduce
fib = lambda n: reduce(lambda x, _: x+[x[-1]+x[-2]], range(n-2), [0,1])
print(fib(10))
```

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C:\Users\Aakrosh.LAPTOP-PGDD34UG\AppData\Local\Programs\Python\Python310\python.exe C:\Users\Aakrosh.LAPTOP-PGDD34UG\Documents\Python Scripts\Q4.py
[0, 1, 1, 2, 3, 5, 8, 13, 21, 34]
```