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"csc710sbse: hw1: Witschey"

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```

from __future__ import unicode_literals
from six import text_type

def hey(s):
    s = text_type(s).strip()
    criteria = [
        lambda s: 'Fine. Be that way!' if not s else None,
        lambda s: 'Woah, chill out!' if s.isupper() else None,
        lambda s: 'Sure.' if s.endswith('?') else None,
        lambda s: 'Whatever.'
    ]

    for c in criteria:
        rv = c(s)
        if rv:
            return rv

```

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gifts = [
    'a Partridge in a Pear Tree',
    'two Turtle Doves',
    'three French Hens',
    'four Calling Birds',
    'five Gold Rings',
    'six Geese-a-Laying',
    'seven Swans-a-Swimming',
    'eight Maids-a-Milking',
    'nine Ladies Dancing',
    'ten Lords-a-Leaping',
    'eleven Pipers Piping',
    'twelve Drummers Drumming',
]

days = [
    'first',
    'second',
    'third',
    'fourth',
    'fifth',
    'sixth',
    'seventh',
    'eighth',
    'ninth',
    'tenth',
    'eleventh',
    'twelfth',
]

def verse(day):
    pre = 'On the {} day of Christmas '.format(days[day-1]) + \
        'my true love gave to me,'

    # comma-separated list of gifts from today's down to doves, inclusive
    todays_gifts = ', '.join(gifts[day-1:0:-1])

    # add conjunction if there are many gifts
    if day > 1:
        todays_gifts += ', and '
    # a partridge in a pear tree!
    todays_gifts += gifts[0]

    post = '\n'
    return pre + todays_gifts + post

def verses(start, end):
    return '\n'.join([verse(n) for n in range(start, end + 1)]) + '\n'

def sing():
    return verses(1, 12)

```

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```
import string, re

def word_count(arg):
    arg = arg.lower()
    # generate pattern that matches any punctuation or whitespace character
    pattern = '[' + string.punctuation + '\s']
    # split into non-empty words as separated by pattern
    words = [x for x in re.split(pattern, arg) if x]

    rv = {}
    for s in words:
        # initialize with 1 if s is not in rv; otherwise, increment rv[s]
        rv[s] = rv.get(s, 0) + 1
    return rv
```