# CSC148 Worksheet 5 Solution

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### Question 1

```
from datetime import date, timedelta

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...

misbehaved_1 = Tweet('', date.today(), 'test')
misbehaved.like(-1)

yesterday = date.today() - timedelta(days=1)
misbehaved_2 = Tweet('john', yesterday 'test')

misbehaved_3 = Tweet('john', date.today(), '')

"""
```

```
Correct Solution:

"""

from datetime import date, timedelta

...

misbehaved_1 = Tweet('', date.today(), 'test')
misbehaved.like(-1)

yesterday = date.today() - timedelta(days=1)
misbehaved_2 = Tweet('john', yesterday 'test')

misbehaved_3 = Tweet('john', date.today(), '')

misbehaved_4 = Tweet('john doe', date.today(), 'test') # More solution!!

"""
```

### Question 2

- A tweet must receive positive number of likes
- A tweet must have user id without spaces

#### Correct Solution:

- A tweet must receive non-negative number of likes
- A tweet user id must not be empty.
- A tweet must have user id without spaces
- A tweet must have content length less than or equal to 280 characters

### Question 3

• Fix for the property 'a tweet must receive positive number of likes'

```
class Tweet:
    ...

def like(self, n: int) -> None:
    """Record the fact that this tweet received <n> likes.
    These likes are in addition to the ones <self> already has

"""

if n < 0:
    raise ValueError('n must be non-negative value')

self.likes += n</pre>
```

• Fix for the property 'a tweet user id must not be empty.'

```
class Tweet:
    ...

def __init__(self, who: str, when: date, what: str) -> None:
    """Initialize a new Tweet.

"""

if who.strip() == '':
    raise ValueError("variable 'who' must not be empty")

self.userid = who
self.content = what
```

```
self.created_at = when
self.likes = 0
```

• Fix for the property 'a tweet must have user id without spaces'

```
class Tweet:
           . . .
          def __init__(self, who: str, when: date, what: str) -> None:
               """Initialize a new Tweet.
               0.000
6
               if ' ' in who:
                   raise ValueError("variable 'who' must not have spaces"
9
     )
10
               self.userid = who
11
               self.content = what
12
               self.created_at = when
13
               self.likes = 0
14
```

• Fix for the property 'a tweet must have content length less than or equal to 280 characters'

```
class Tweet:
          . . .
          def __init__(self, who: str, when: date, what: str) -> None:
               """Initialize a new Tweet.
               0.000
6
               if len(what) > 280:
10
                   raise ValueError("variable 'what' must be 280
11
     characters or less")
12
               self.userid = who
13
               self.content = what
14
               self.created_at = when
15
               self.likes = 0
16
```

## Question 4