

CompSci 101 - Principles of Programming 5

A3 Q7 - is_a_valid_date() Split a string into separate words

The split() method can be applied to a string object. The result is a list of the individual words in the list

```
def some_function(...):
    info = "happy busy programmer"
    info_list = info.split()
```

#At this point, you can check if the list of individual words is of a certain length and return False if it isn't

#Now can continue knowing the list of individual words is the correct length

A3 Q7 - is_a_valid_date() The 'in' operator

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The 'in' operator can be used to check if a string is an element of a list.

```
def some_function(...):
    valid_list =[..., ..., ...] #list of valid words
    word_to_check = ...
```

if word_to_check not in valid_list:
 #can now return False if it isn't in the list

#Now can continue knowing that the word_to_check
#is in the list of valid words

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A3 Q7 - is_a_valid_date() Get the legal maximum number of days.

Find the index of an element which exists in the list using the index () method.

For example, if the month is "April", the index of this in the month_names is 3. This means that the maximum number of days in the month of "April" is the number at index 3 in the days_in_month list (30).

IMPORTANT: A maximum number of days of 30 means that the day part of the date_str can be any number between 1 and 30 (both inclusive).