

## CSC108H Winter 2019 Worksheet: Code reading and docstrings

Complete the examples calls and then write a docstring description for each function. (If you get stuck, read the flip-side of this page for hints.)

(a) `def function_a(s1: str, s2: str) -> bool:`  
    `"""`

```
>>> function_a(          ,          )
True
>>> function_a(          ,          )
False
"""
```

`return s1 in s2 and s2 in s1`

(b) `def function_b(s1: str, s2: str) -> bool:`  
    `"""`

```
>>> function_b(          ,          )
True
>>> function_b(          ,          )
False
"""
```

`return s1[0] == s2[0] and s1[-1] == s2[-1]`

(c) `def function_c(s1: str, s2: str) -> bool:`  
    `"""`

```
>>> function_c(          ,          )
True
>>> function_c(          ,          )
False
"""
```

`return min(len(s1), len(s2)) == len(s1)`

(d) `def function_d(s1: str, s2: str) -> bool:`  
    `"""`

```
>>> function_d(          ,          )
True
>>> function_d(          ,          )
False
"""
```

`return s1[0] == s1[-1] or s2[0] == s2[-1]`

(e) `def function_e(s1: str, s2: str) -> bool:`  
    `"""`

```
>>> function_e(          ,          )
True
>>> function_e(          ,          )
False
"""
```

`return str(len(s1)) in s2`

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(i) Match each docstring description to the function it describes. Note that “iff” stands for “if and only if”.

1. `function_` : Return True if and only if s1 and s2 have the same first character and s1 and s2 have the same last character.
2. `function_` : Return True if and only if the number representing the length of s1 occurs in s2.
3. `function_` : Return True if and only if the first and last characters in s1 are the same, the first and last characters in s2 are the same, or both.
4. `function_` : Return True if and only if s1 and s2 are the same string.
5. `function_` : Return True if and only if the length of s1 is less than the length of s2.

(ii) Which function(s) also need a precondition? Add the precondition(s).