

BIS 420 PROGRAMMING FOR DATA SCIENCE

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The following functions are all intended to check whether a string contains any lowercase letters, but at least some of them are wrong. For each function, describe what the function

actually does (assuming that the parameter is a string).

```
def any_lowercase1(s):
```

```
    for c in s:
```

```
        if c.islower():
```

```
            return True
```

```
    else:
```

```
        return False
```

```
def any_lowercase2(s):
```

```
    for c in s:
```

```
        if 'c'.islower():
```

```
            return 'True'
```

```
    else:
```

```
        return 'False'
```

```
def any_lowercase3(s):
```

```
    for c in s:
```

```
        flag = c.islower()
```

```
    return flag
```

```
def any_lowercase4(s):
```

```
    flag = False
```

```
    for c in s:
```

```
        flag = flag or c.islower()
```

```
    return flag
```

```
def any_lowercase5(s):
```

```
    for c in s:
```

```
        if not c.islower():
```

```
            return False
```

```
    return True
```

```
def any_lowercase1(s):
```

```
    for c in s:
```

```
        if c.islower():
```

```
            return True
```

```

        else:
            return False

def any_lowercase2(s):
    for c in s:
        if 'c'.islower():
            return 'True'
        else:
            return 'False'
def any_lowercase3(s):
    for c in s:
        flag = c.islower()
        return flag
def any_lowercase4(s):
    flag = False
    for c in s:
        flag = flag or c.islower()
    return flag
def any_lowercase5(s):
    for c in s:
        if not c.islower():
            return False
    return True

```

```

def any_lowercase1(s):
    for c in s:
        if c.islower():
            return True
        else:
            return False

def any_lowercase2(s):
    for c in s:
        if 'c'.islower():
            return 'True'
        else:
            return 'False'
def any_lowercase3(s):
    for c in s:
        flag = c.islower()
        return flag
def any_lowercase4(s):
    flag = False
    for c in s:
        flag = flag or c.islower()
    return flag

```

```
def any_lowercase5(s):  
    for c in s:  
        if not c.islower():  
            return False  
    return True
```