

Exercices in Python

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(1) What does the following code do?

```
if 2 + 2 == 5:
    print("Sorry?")
else:
    print("Bonjour!")
```

(2) What does the following program do?

```
state = 1
for i in range(100):
    if state == 1:
        print('A')
    if state == 2:
        print('B')
    if state == 3:
        print('C')
    state = state + 1
    if state == 4:
        state = 1
```

(3) What does the following program do (% is the modulo operator that returns the remainder of the integer division)

```
n = 100
while n > 0:
    if n%7 == 0:
        print(n)
    n = n - 1
```

(4) What does the function `ssn` do in the following code?

```
def ss(l):
    s = 0
    for x in l:
        s = s + x * x
    return s

def ssn(n):
    return ss(range(n+1))
```

(5) What does the following function do?

```
def un(l):
    u = []
    for x in l:
        if not(x in u):
            u.append(x)
    return u
```