

tpcapytale.py ×

```
1 #PROJET CAPYTALE
2 from math import gcd
3
4 def est_duffy(n) :
5     nb_div = 0
6     somme_div = 0
7     for i in range(1, n+1) :
8         if n % i == 0 :
9             nb_div += 1
10            somme_div += i
11 if gcd(somme_div, n) == 1 :
12     return True
13 else :
14     return False
```

console ×

```
Python 3.11.6 /usr/bin/python
>>> #Run tpcapytale.py
>>> est_duffy(6)
False
>>> est_duffy(13)
True
>>> est_duffy(265)
True
>>>
>>> from random import randint
>>> nb = randint(1,100000)
>>> nb, est_duffy(nb)
(42563, True)
```