

0 Rappels 1 Conditions et boucles

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```
[1]: x = 3
      y = 2
      if x < y:
          print(x)
      else:
          print(y)
```

2

```
[2]: x = 1
      y = 3
      z = 2
      if x > y:
          if z > x:
              print(z)
          else:
              print(x)
      else: # y > x
          if z > y:
              print(z)
          else:
              print(y)
```

3

```
[3]: x = 1
      y = 3
      z = 2
      if x < y:
          if y < z:
              print(x, y, z)
          else: # z < y, x < y
              if z < x:
                  print(z, x, y)
              else:
                  print(x, z, y)
      else: # y < x
          if z < y:
              print(z, y, x)
```

```
else: # y < z, y < x
    if x < z:
        print(y, x, z)
    else:
        print(y, z, x)
```

1 2 3

```
[4]: a = 2000
if (a%4 == 0 and a%100 != 0) or a%400 == 0:
    print(a, 'est bissextile')
else:
    print(a, "n'est pas bissextile")
```

2000 est bissextile

```
[6]: n = 10
for i in range(n):
    print(i)
```

0
1
2
3
4
5
6
7
8
9

```
[7]: for i in range(100):
    print(2*i)
```

0
2
4
6
8
10
12
14
16
18
20
22
24
26
28

30
32
34
36
38
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42
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198

```
[8]: for i in range(100):  
      if i%3 == 0:  
          print(i)
```

0
3
6
9
12
15

18
21
24
27
30
33
36
39
42
45
48
51
54
57
60
63
66
69
72
75
78
81
84
87
90
93
96
99

```
[9]: for i in range(100):  
      if i%3 == 0 and i%5 == 0:  
          print(i)
```

0
15
30
45
60
75
90

```
[13]: for i in range(2, 10):  
       for j in range(1, 10):  
           print(i, 'x', j, '=', i*j)  
       print()
```

2 x 1 = 2
2 x 2 = 4
2 x 3 = 6

$2 \times 4 = 8$
 $2 \times 5 = 10$
 $2 \times 6 = 12$
 $2 \times 7 = 14$
 $2 \times 8 = 16$
 $2 \times 9 = 18$

$3 \times 1 = 3$
 $3 \times 2 = 6$
 $3 \times 3 = 9$
 $3 \times 4 = 12$
 $3 \times 5 = 15$
 $3 \times 6 = 18$
 $3 \times 7 = 21$
 $3 \times 8 = 24$
 $3 \times 9 = 27$

$4 \times 1 = 4$
 $4 \times 2 = 8$
 $4 \times 3 = 12$
 $4 \times 4 = 16$
 $4 \times 5 = 20$
 $4 \times 6 = 24$
 $4 \times 7 = 28$
 $4 \times 8 = 32$
 $4 \times 9 = 36$

$5 \times 1 = 5$
 $5 \times 2 = 10$
 $5 \times 3 = 15$
 $5 \times 4 = 20$
 $5 \times 5 = 25$
 $5 \times 6 = 30$
 $5 \times 7 = 35$
 $5 \times 8 = 40$
 $5 \times 9 = 45$

$6 \times 1 = 6$
 $6 \times 2 = 12$
 $6 \times 3 = 18$
 $6 \times 4 = 24$
 $6 \times 5 = 30$
 $6 \times 6 = 36$
 $6 \times 7 = 42$
 $6 \times 8 = 48$
 $6 \times 9 = 54$

$7 \times 1 = 7$

7 x 2 = 14
7 x 3 = 21
7 x 4 = 28
7 x 5 = 35
7 x 6 = 42
7 x 7 = 49
7 x 8 = 56
7 x 9 = 63

8 x 1 = 8
8 x 2 = 16
8 x 3 = 24
8 x 4 = 32
8 x 5 = 40
8 x 6 = 48
8 x 7 = 56
8 x 8 = 64
8 x 9 = 72

9 x 1 = 9
9 x 2 = 18
9 x 3 = 27
9 x 4 = 36
9 x 5 = 45
9 x 6 = 54
9 x 7 = 63
9 x 8 = 72
9 x 9 = 81

```
[16]: n = 20
for p in range(2, n):
    estPremier = True
    for div in range(2, p):
        if p%div == 0:
            estPremier = False
    if estPremier:
        print(p)
```

2
3
5
7
11
13
17
19

[]: