

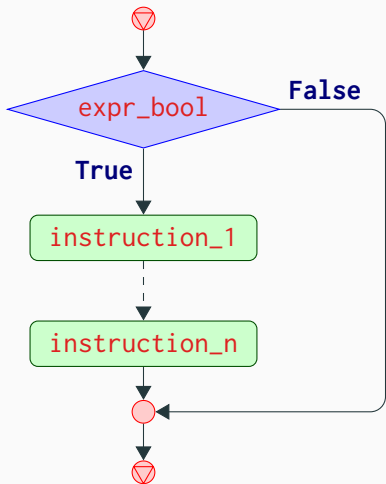
Structures de contrôle en Python

G. Dewaele

4 septembre 2017

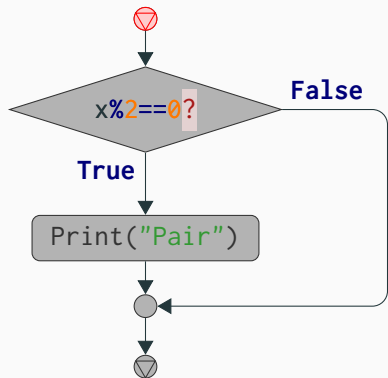
Lycée Louis-le-Grand

Structure conditionnelle

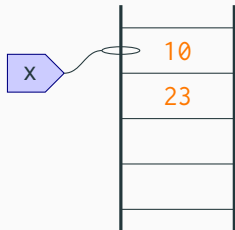


```
if expr_bool :  
    instruction_1  
    ...  
    instruction_n  
...
```

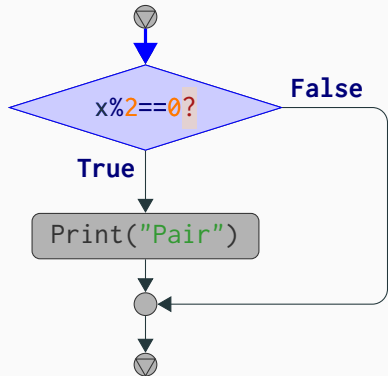
Exemple



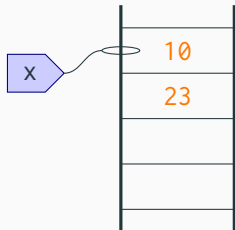
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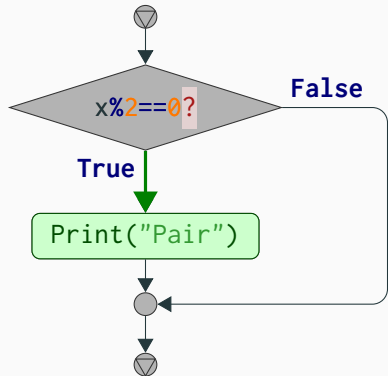
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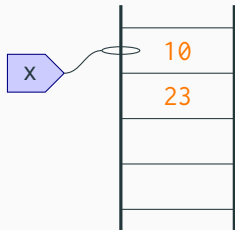
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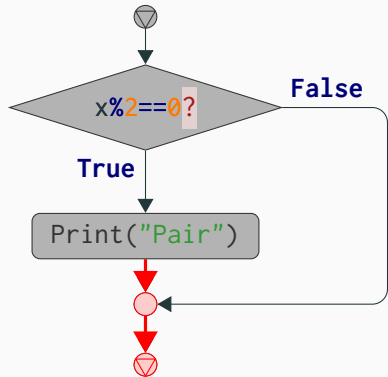
Exemple



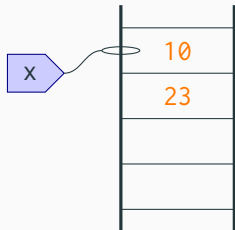
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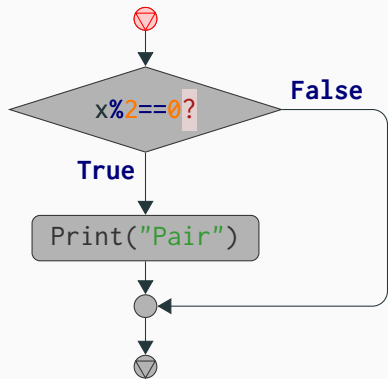
Exemple



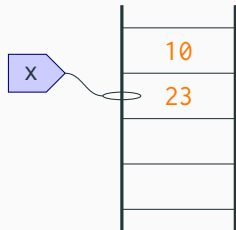
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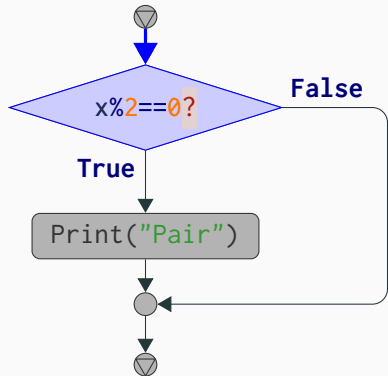
Exemple



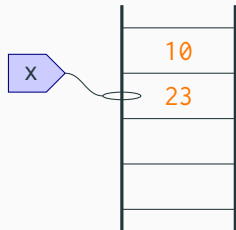
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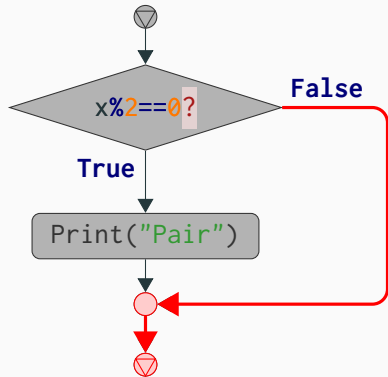
Exemple



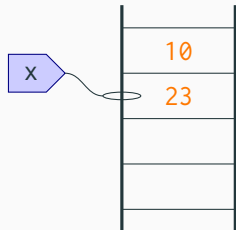
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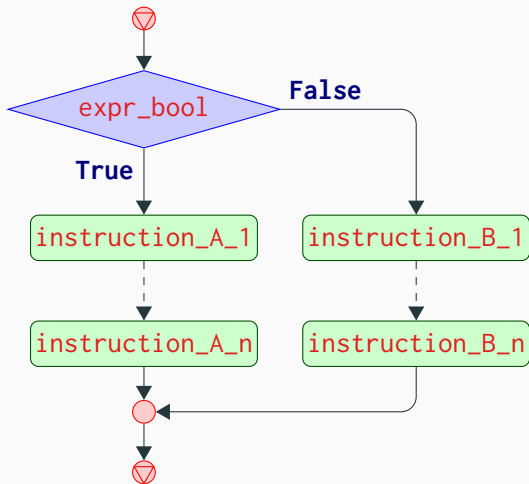
Exemple



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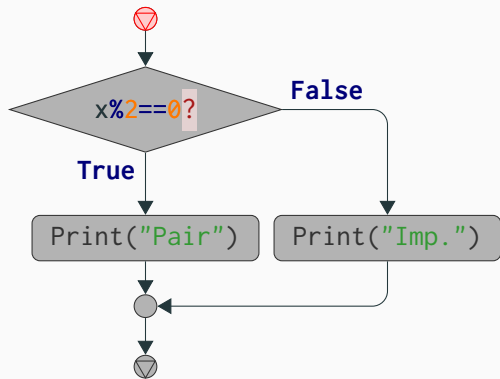


Structure conditionnelle (2)

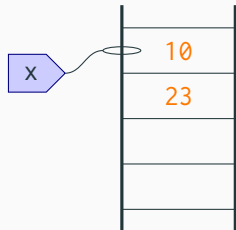


```
if expr_bool :  
    instruction_A_1  
    ...  
    instruction_A_n  
else :  
    instruction_B_1  
    ...  
    instruction_B_n  
...
```

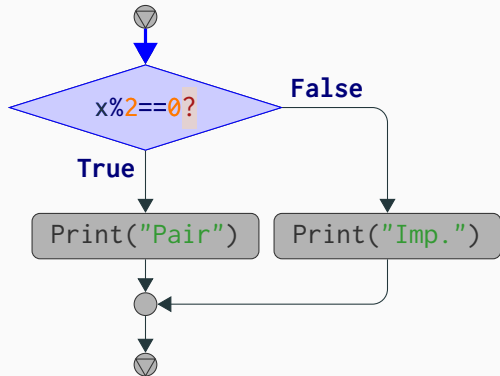
Exemple



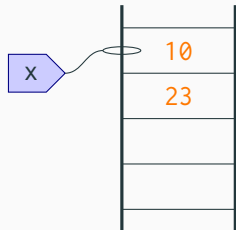
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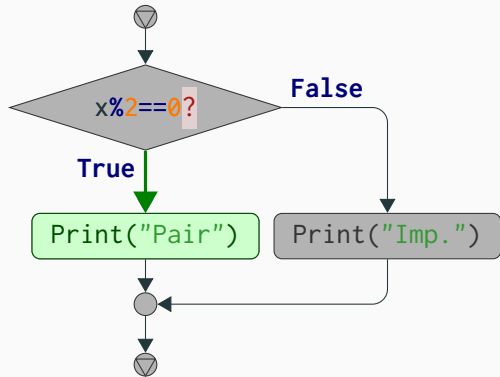
Exemple



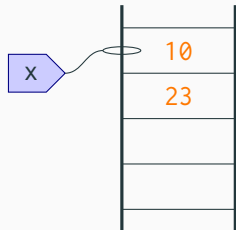
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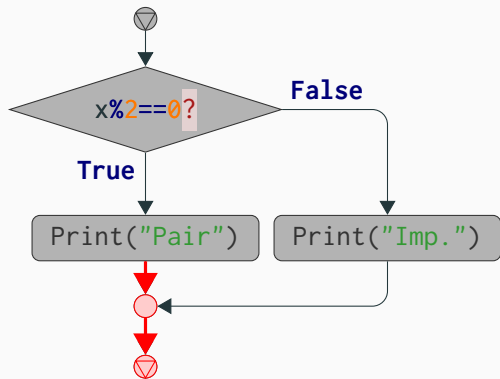
Exemple



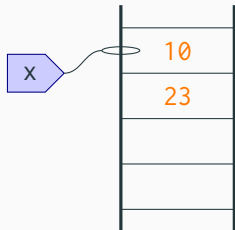
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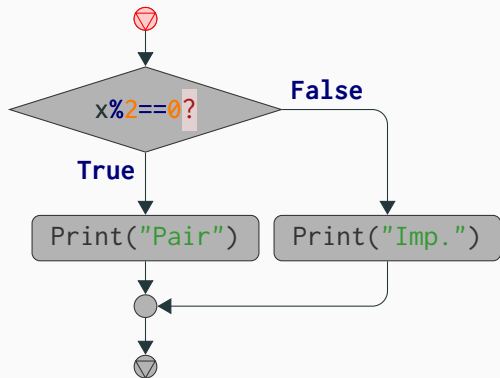
Exemple



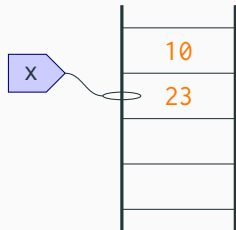
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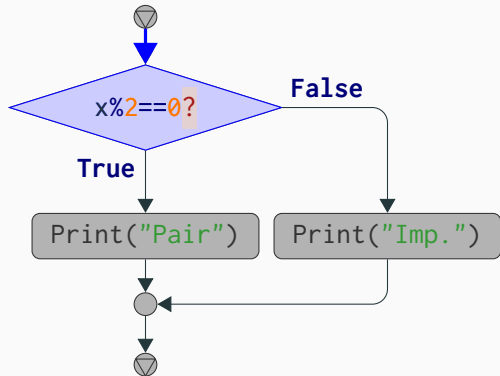
Exemple



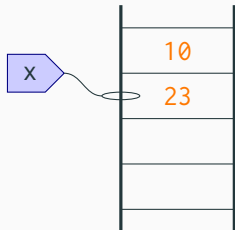
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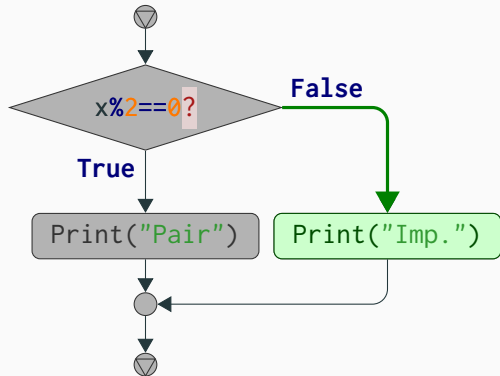
Exemple



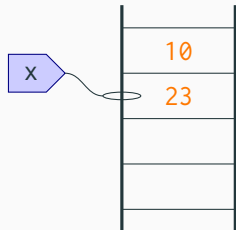
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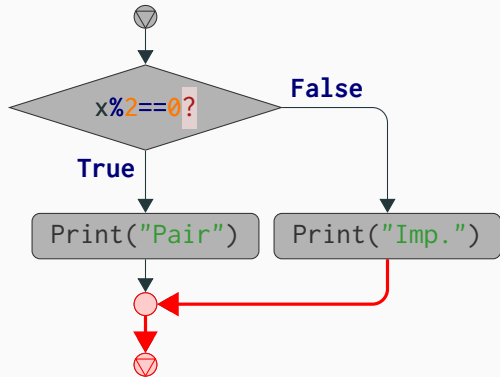
Exemple



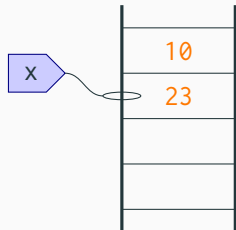
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Exemple

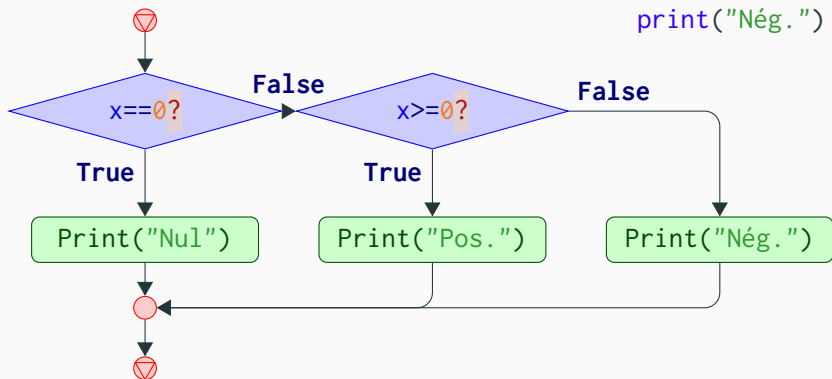


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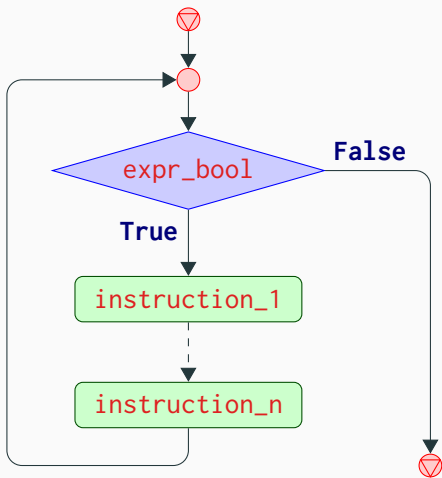


Plusieurs chemins avec « elif »

```
if x==0 :  
    print("Nul")  
elif x>=0 :  
    print("Pos.")  
else :  
    print("Nég.")
```

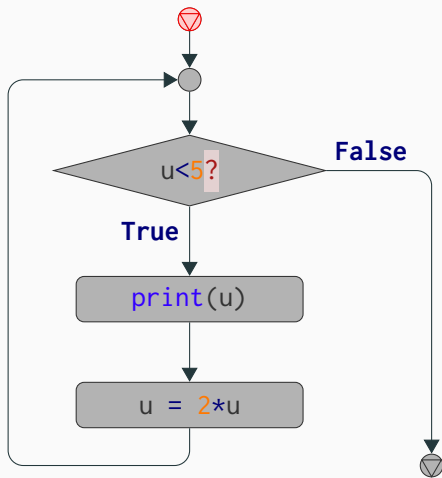


Structure « while »

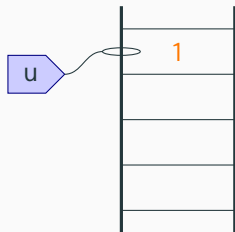


```
while expr_bool :  
    instruction_1  
    ...  
    instruction_n  
    ...
```

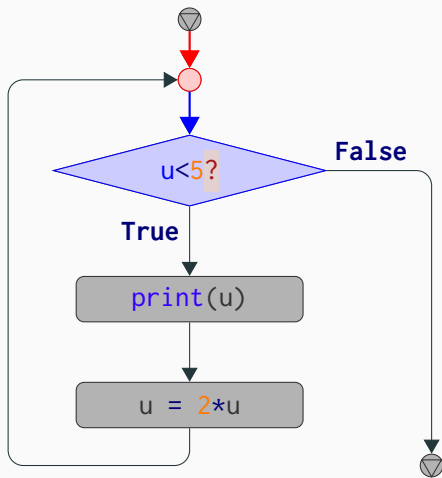
Exemple



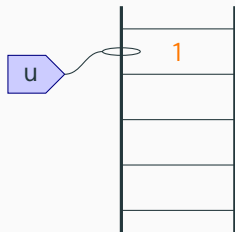
```
while u < 5 :  
    print(u)  
    u = 2*u
```



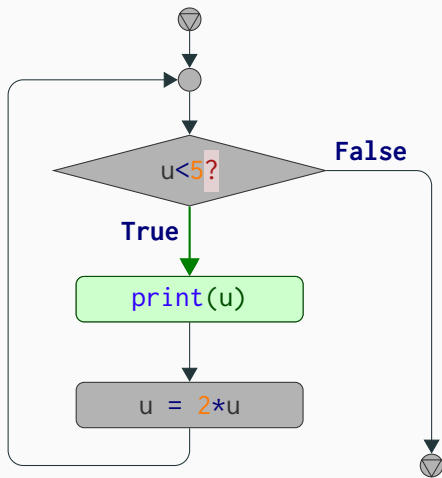
Exemple



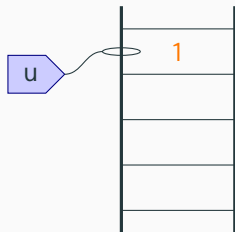
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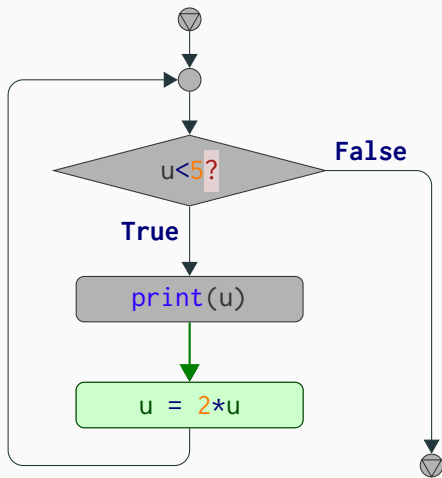
Exemple



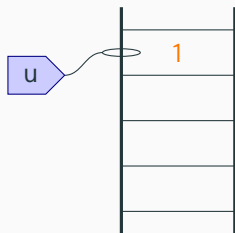
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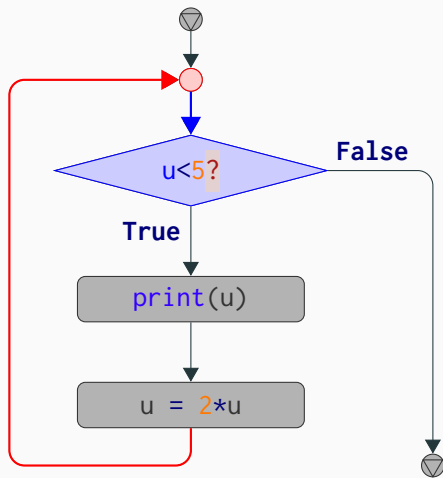
Exemple



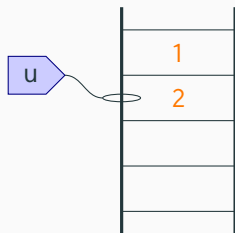
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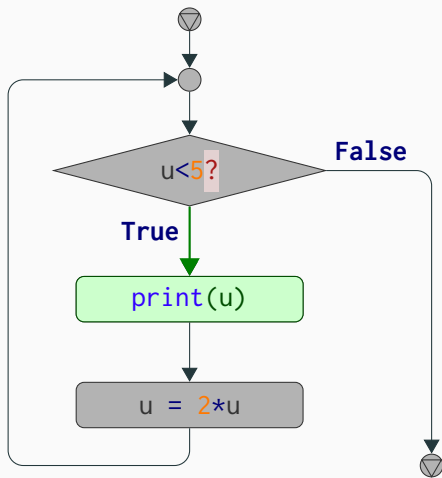
Exemple



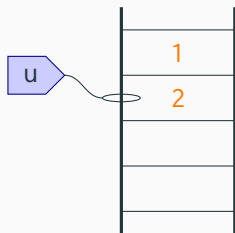
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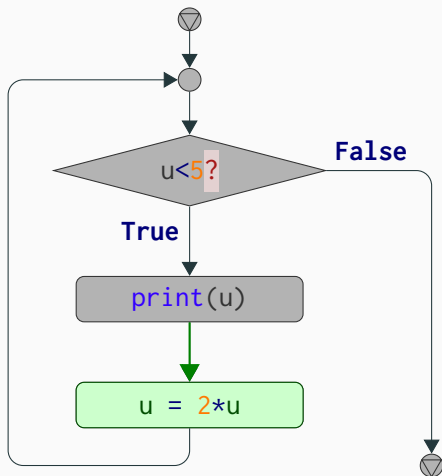
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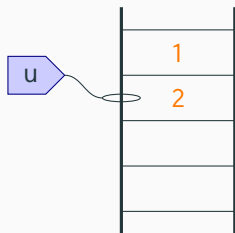
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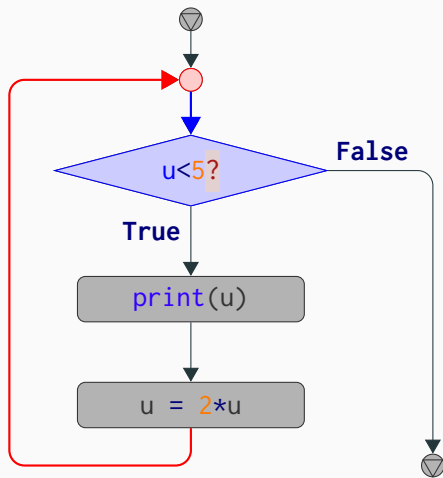
Exemple



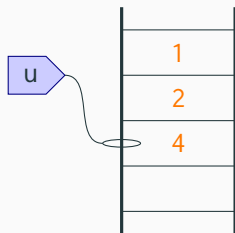
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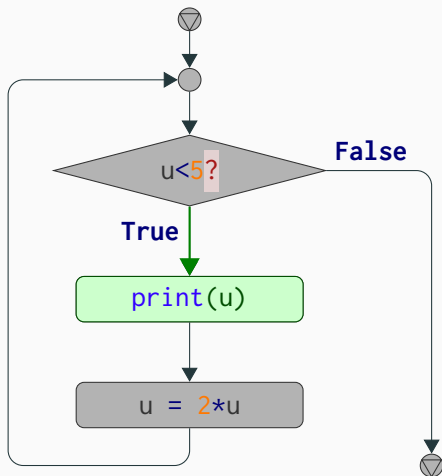
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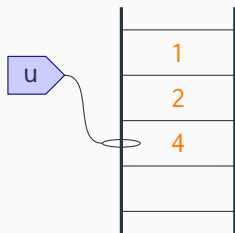
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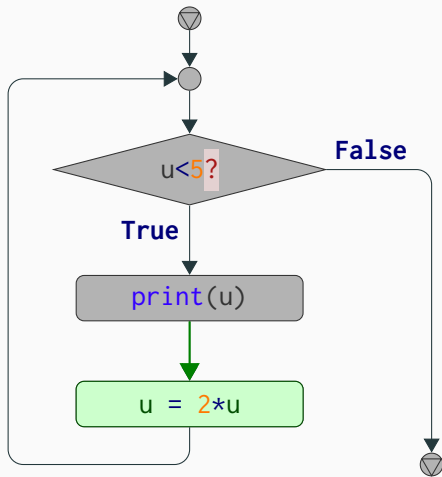
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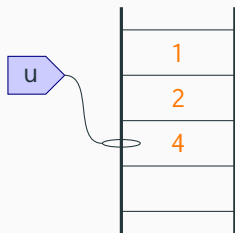
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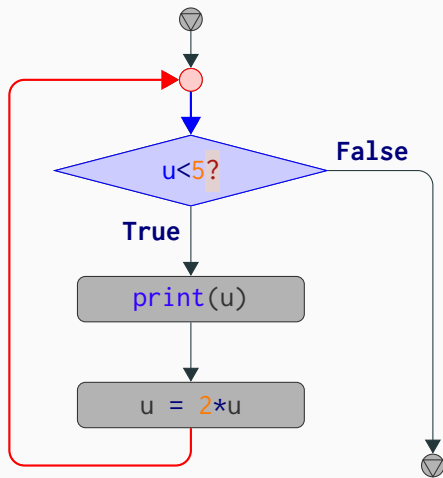
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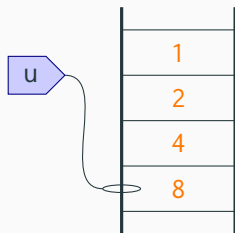
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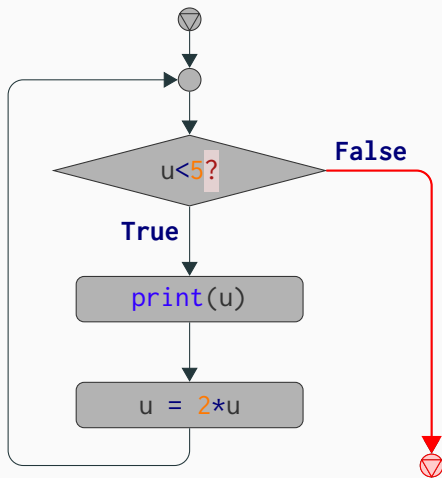
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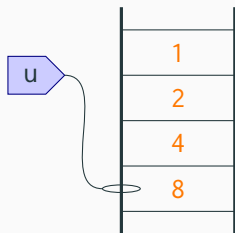
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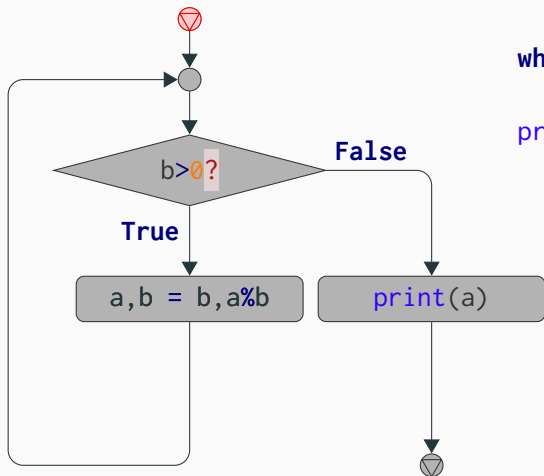
Exemple



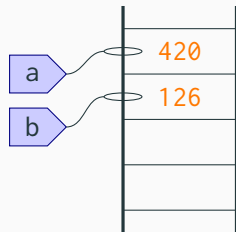
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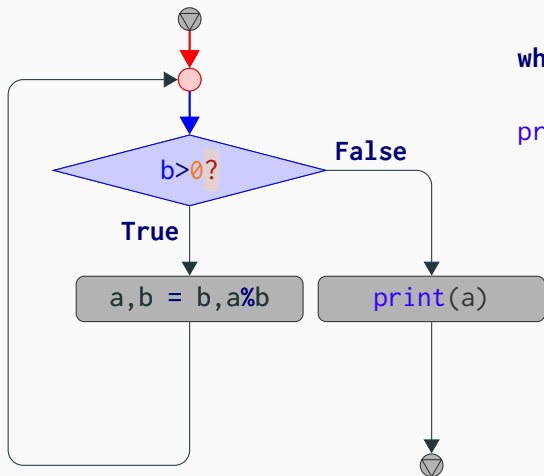
Calcul du PGCD avec l'algorithme d'Euclide



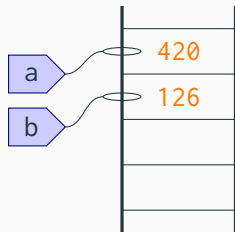
```
while b > 0 :  
    a, b = b, a % b  
print(a)
```



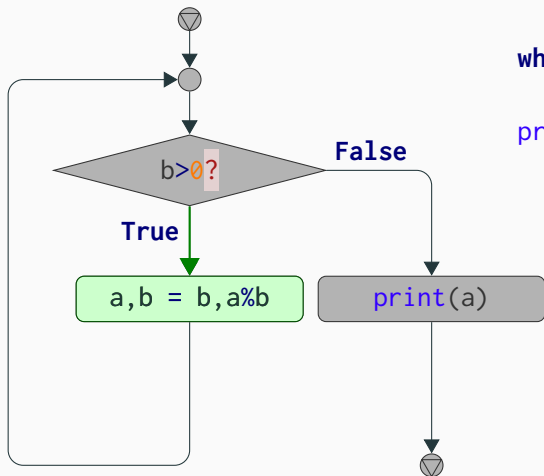
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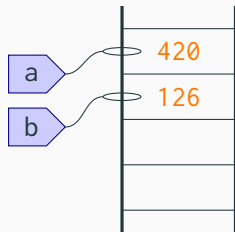
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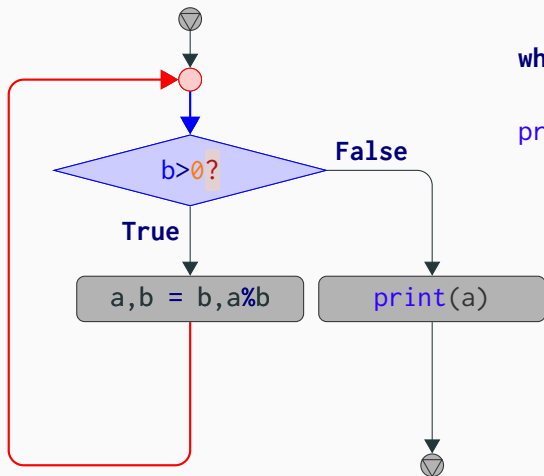
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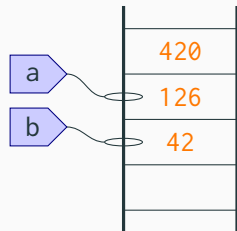
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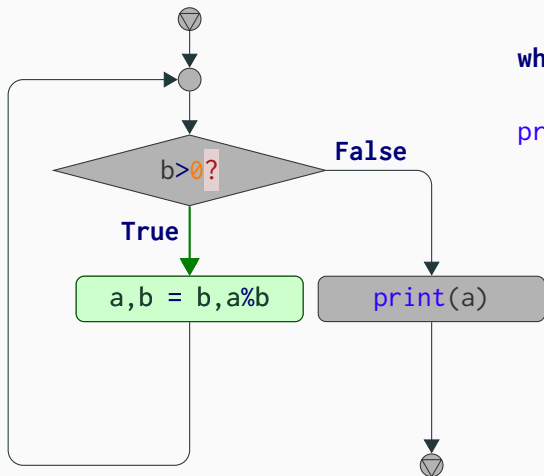
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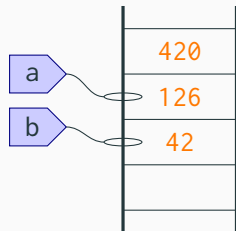
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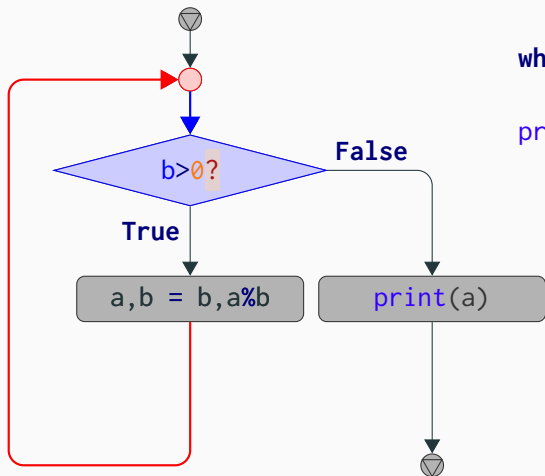
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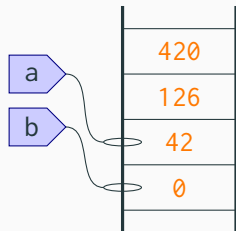
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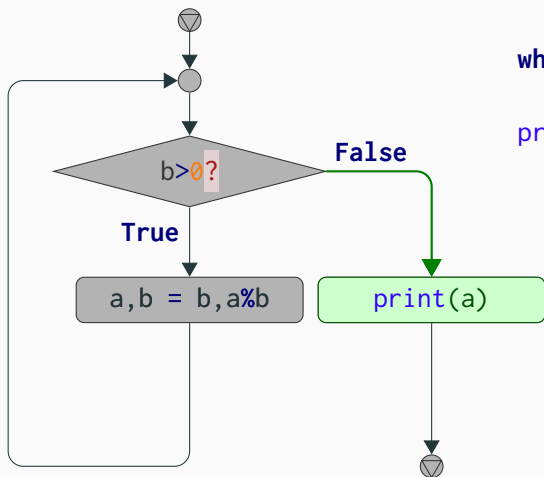
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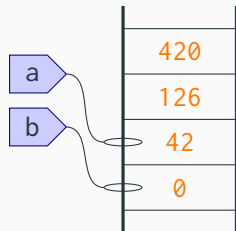
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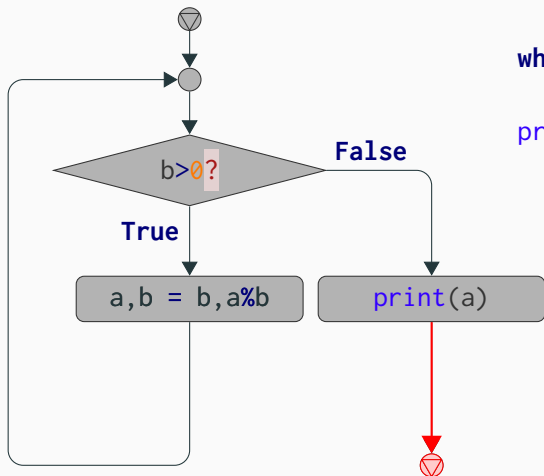
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