# Révisions types de données Correction exercices

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Terminale - NSI

Rév 01

Révisions types de données Correction exercices

### Exercice 1:

```
1 tab = [1 for i in range(5)]
```

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### Exercice 2:

```
tab = [i for i in range(5)]
```

### Exercice 3:

```
1 tup = tuple(i for i in range(4, -1, -1))
```

#### Exercice 4:

```
tup = tuple(i for i in range(0, 9, 2))

# seconde méthode
tup = tuple(i for i in range(9) if i%2 == 0)
```

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### Exercice 5:

```
1 dico = {i: 1 for i in range(5)}
```

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### Exercice 6:

```
dico = {chr(65+i): i for i in range(5)}
```

#### Exercice 7:

```
from random import randint
tab = [randint(0, 100) for i in range(10)]
```

#### Exercice 8:

```
from random import randint
1
2
   tab = [randint(0, 100) for i in range(10)]
3
4
   def maxi(tab: list) -> int:
5
6
        maximum = 0
        for element in tab:
7
8
            if element > maximum:
9
                maximum = element
        return maximum
10
11
   print(tab)
12
   print(maxi(tab))
13
```

#### Exercice 9:

```
from random import randint
1
2
   tup = tuple(randint(0, 100) for i in range
3
       (10))
4
   def somme(tup: tuple) -> int:
5
        resultat = 0
6
7
        for element in tup:
8
            resultat += element
        return resultat
9
10
   print(tup)
11
   print(somme(tup))
12
```

#### Exercice 10:

```
1
   tab = ["qui", "que", "quoi", "dont", "où", "
      comment"]
2
   i1 = int(input("indice 1: "))
   i2 = int(input("indice 2: "))
4
5
   temp = tab[i1]
6
   tab[i1] = tab[i2]
   tab[i2] = temp
8
9
10
   print(tab)
```

### Exercice 11:

```
bibliotheque = [
1
2
        {"titre": "Il était deux fois",
3
            "auteur": "Franck Thilliez",
4
            "editeur": "Poche",
            "prix": 8.70},
5
        {"titre": "Fahrenheit 451",
6
            "auteur": "Ray Bradbury",
 7
8
            "editeur": "Folio",
            "prix": 6.30},
9
10
        {"titre": "Le guide du voyageur
      galactique",
            "auteur": "Douglas Adams",
11
            "editeur": "Folio",
12
            "prix": 8.10}
13
14
15
16
   for livre in bibliotheque:
17
        print(livre["auteur"])
```

#### Exercice 12:

```
def lettres(mot: str)->dict:
1
        11 11 11
2
3
        compte le nombre d'occurrences
        de chaque lettre du mot
4
        11 11 11
5
6
        occurrences = {}
        for 1 in mot:
8
            # si la lettre est déjà référencée
             if 1 in occurrences:
9
                 occurrences[1] += 1
10
11
            else:
                 occurrences[1] = 1
12
13
        return occurrences
14
   print(lettres("bonjour"))
15
```