

Révisions

I Variables

Pour chaque script donner le résultat des tests.

```
1. a = 1
   b = 2
   a = b
   b = a
   print(a, b)
```

```
2. a = 1
   x = 2
   a = x + 1
   print(a)
```

```
3. def f(x):
    a = x + 1
    return a

a = 1
print(f(2), a)
```

II Objets mutables

```
1. a = 2
   b = a
   b = b + 1
   print(a, b)
```

```
2. a = [0, 1]
   b = a
   b.append(2)
   print(a, b)
```

```
3. a = [0, 1]
   b = a
   b = b + [2]
   print(a, b)
```

```
4. a = [0, 1]
   b = a
   b = b.append(2)
   print(a, b)
```

```
5. a = [0]
   L = [a] * 2
   L[0][0] = 1
   print(L)
```

```
6. a = []
   L = [a for k in range(2)]
   L[0].append(1)
   print(L)
```

```
7. L = [[0]] * 2
   L[0][0] = 1
   print(L)
```

```
8. L = [[] for k in range(2)]
   L[0].append(1)
   print(L)
```

```
9. L = [0]
   M = L
   M += [1]

   print(M, L)
```

```
10. L = [0]
    M = L
    M = M + [1]

    print(M, L)
```

III Mutables et variables locales

```
1. def f(x):
    x = x + 1
    return x

a = 3
print(f(a), a)
```

```
2. def g(L):
    L.append(1)
    return L

M = []
print(g(M), M)
g(M)
print(M)
```

```
3. def f(L):
    N = L
    N[0] = 0
    return N

M = [1, 1]
print(f(M), M)
```

```
4. def g(L):
    L = []
    return L

N = [1, 1]
print(g(N), N)
```

```
5. def f(L):
    L = L + [1]
    return L

M = []
print(f(M), M)
```

```
6. def g(L):
    L.append(1)
    return L

M = []
print(g(M), M)
```

```
7. def h(L):
    L = L.append(1)
    return L

M = []
print(h(M), M)
```

IV Fonction mystère et procédure

```
def mystere(L):
    M = []
    for x in L:
        M.append(x)
        M.append(x)
    return M
```

```
M = ["a", "b", "c"]
print(mystere(M))
```

1. Donner le résultat du script.
2. Écrire une procédure qui modifie la liste passée en argument pour que la liste modifiée soit la liste que renvoie la fonction `mystere`.

V Les messages d'erreur

- `L[i]` -- `IndexError: list index out of range`

- Could not run code because it is incomplete.

- `a[0]` -- `TypeError: 'int' object is not subscriptable`

- `L(0)` -- `TypeError: 'list' object is not callable`

- `IndentationError: unexpected indent`
