```
from doctest import testmod
def delta(tab: list) -> list:
     """ Codage par différence du tableau tab.
     Args:
          tab (list): tableau non vide de nombres entiers
         list: tableau de valeurs entières compressées par différence
     Tests et Exemples:!
     >>> delta([1000, 800, 802, 1000, 1003])
[1000, -200, 2, 198, 3]
     >>> delta([42])
     [42]
     diff = [tab[0]]
     n = len(tab)
     for i in range(1, n):
    delta = tab[i] - tab[i - 1]
          diff.append(delta)
     return diff
testmod()
# upylab
from random import randint
tab = [randint(0, 1000), randint(0, 1000)][:randint(1,10)]
print (tab)
```