## Exercice 2

```
In [ ]:  c2 = [[1, 7], [7, 1]]
         c3 = [[3, 4, 5], [4, 4, 4], [5, 4, 3]]
         c3bis = [[2, 9, 4], [7, 0, 3], [6, 1, 8]]
```

```python
In [ ]:  class Carre:
             def __init__(self, liste, n):
                 self.ordre = n
                 self.tableau = [[liste[i + j * n] for i in range(n)] for j in
         range(n)]

             def affiche(self):
                 '''Affiche un carré'''
                 for i in range(self.ordre):
                     print(self.tableau[i])

             def somme_ligne(self, i):
                 '''Calcule la somme des valeurs de la ligne i'''
                 somme = 0
                 for j in range(self.ordre):
                     somme = somme + self.tableau[i][j]
                 return somme

             def somme_col(self, j):
                 '''Calcule la somme des valeurs de la colonne j'''
                 somme = 0
                 for i in range(self.ordre):
                     somme = somme + self.tableau[i][j]
                 return somme

             def est_semimagique(self):
                 s = self.somme_ligne(0)

                 #test de la somme de chaque ligne
                 for i in range(...):
                     if ... != s:
                         return ...

                 #test de la somme de chaque colonne
                 for j in range(...):
                     if ... != s:
                         return ...

                 return ...
```

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