Devoir 2

exercie 1

1.

- 2. aaaa
- 3. bbbbb

Exercie 2

Algorithm 1 Tri par comptage

```
1: function TRICOMPTAGE(tab[]: tableau[1..n] d'entier, n: entier)
        min \leftarrow tab[1]
 2:
        max \leftarrow tab[1]
 3:
 4:
        for i \leftarrow 2 to n do // Initialisation de min et max
            if tab[i] < min then
 5:
                min \leftarrow tab[i]
 6:
            end if
 7:
            if tab[i] > max then
 8:
                max \leftarrow tab[i]
 9:
10:
            end if
11:
        end for
12:
        tabComptage \leftarrow []
        for i \leftarrow 1 to max - min + 1 do // Initialisation de tabComptage
13:
            tabComptage[i] \leftarrow 0
14:
        end for
15:
        for i \leftarrow 1 to n do // Remplit tabComptage
16:
           tabComptage[tab[i] - min + 1] \leftarrow tabComptage[tab[i] - min + 1] + 1
17:
18:
        end for
        i \leftarrow 1
19:
        for k \leftarrow 1 to max - min + 1 do // Arrange tab
20:
            for j \leftarrow 1 to tabComptage[k] do
21:
                tab[i] \leftarrow k + min - 1
22:
                i \leftarrow i+1
23:
            end for
24:
        end for
25:
        return tab
26:
27: end function
```