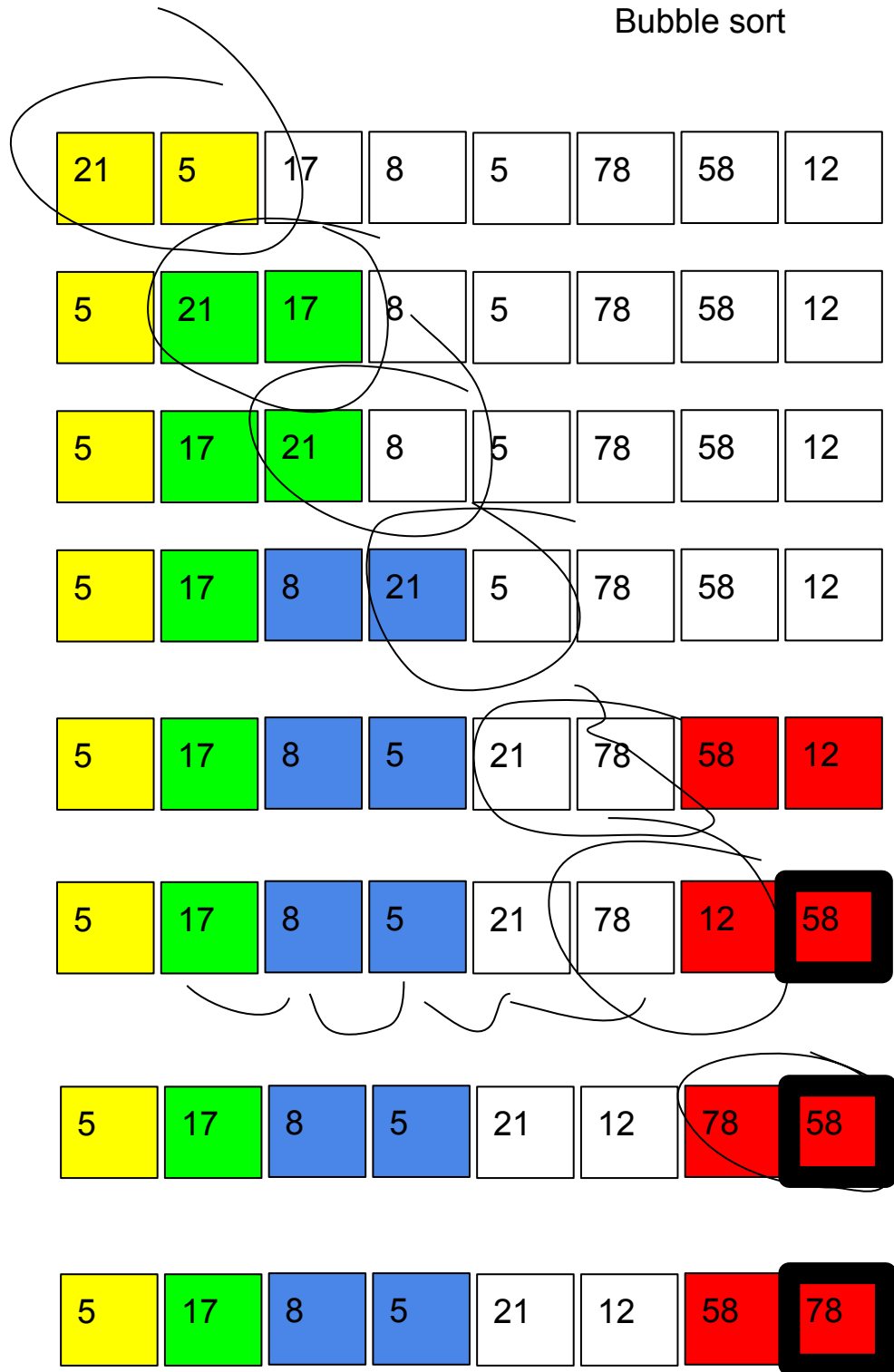


# Сортировка массива пузырьком



Bubble sort

5	5	8	12	17	21	58	58
---	---	---	----	----	----	----	----



```
def bubble_sort(mass):
    j=0
    while j<=len(mass)-1:
        i=0
        while i<=len(mass)-2-j:
            if mass[i]>mass[i+1]:
                temp=mass[i]
                mass[i]=mass[i+1]
                mass[i+1]=temp
            print(mass)
            i+=1
        j+=1
    mass=[4,7,11,1,8,3,5]
    bubble_sort(mass)
    print(mass)
```

```
def bubble_sort(mass):
    j=0
    while j<=len(mass)-1:
        i=0
        while i<=len(mass)-2-j:
            if mass[i]<mass[i+1]:
                temp=mass[i]
                mass[i]=mass[i+1]
                mass[i+1]=temp
            print(mass)
            i+=1
        j+=1
    mass=[4,7,11,1,8,3,5]
    bubble_sort(mass)
    print(mass)
```

```
def bubble_sort(mass):
    j=0
    while j<=len(mass)-1:
        i=len(mass)-2
        while i>=0:
            if mass[i]<mass[i+1]:
                temp=mass[i]
                mass[i]=mass[i+1]
                mass[i+1]=temp
            print(mass)
            i-=1
        j+=1
    mass=[4,7,11,1,8,3,5]
    bubble_sort(mass)
    print(mass)
```

```
def bubble_sort(mass):
    j=0
    while j<=len(mass)-1:
        i=len(mass)-2
        while i>=0:
            if mass[i]>mass[i+1]:
                temp=mass[i]
                mass[i]=mass[i+1]
                mass[i+1]=temp
            print(mass)
            i-=1
        j+=1
    mass=[4,7,11,1,8,3,5]
    bubble_sort(mass)
    print(mass)
```