```
[0, i]
     - i-
for i=0..n-1:
    j = i
    while j > 0 \&\& a[j] < a[j - 1]:
        swap(a[j], a[j - 1])
        j--
      : n^2
           (Merge Sort)
               !
                merge?
fn merge(1: Vec<i64>, r: Vec<i64>) -> Vec<i64> {
    let mut res = Vec::new();
    let mut i = 0 as usize;
    let mut j = i;
    while i + j < 1.len() + r.len() {
        if i != l.len() && (j == r.len() || l[i] < r[j]) {
            res.push(l[i]);
            i += 1;
        }
        else {
            res.push(r[j]);
            j += 1;
        }
    }
    return res;
}
fn sorted(v: Vec<i64>) -> Vec<i64> {
    let n = v.len();
    let m = v / 2usize;
    let res = Vec::new();
}
```

$$T(n) \leq b \times T\left(\frac{n}{a}\right) + n^c$$

$$T(n) = \begin{cases} n^{log_ab}, c < log_ab \\ n^c, c > log_ab \\ n^c \times \log n, c = \end{cases}$$