● 第一题

用 change 事件有个缺点,只有当输入框失去焦点后,才会触发事件,不是实时输入实时更新,可以考虑使用 input 事件

● 第二题

```
function commonParentNode(oNode1, oNode2) {
/*因为DOM树是树形结构,我们可以计算oNode1和oNode2的深度,以document.body的结点为根节点,其深度为0
   const root = document.body
   let node1Dep = getDep(root, oNode1)
   let node2Dep = getDep(root, oNode2)
   let parent
   if (node1Dep <= node2Dep) parent = getCommonParent(oNode1, node1Dep, oNode2, node2Dep)</pre>
   else parent = getCommonParent(oNode2, node2Dep, oNode1, node1Dep) console.log(oNode1, '和', oNode2, '的共同的父节点为', parent);
function getDep(root, node) {
   let cur = node
let dep = 0
        cur = cur.parentNode
    return dep
function getCommonParent(node1, node1Dep, node2, node2Dep) {
    count = node2Dep
    let parent1 = node1, parent2 = node2
    while (parent1 != parent2) {
        if (count != node1Dep)
            parent2 = node2.parentNode
            count--
        } else {
            parent1 = parent1.parentNode
            parent2 = parent2.parentNode
    //return parent1 和 parent2 都是一样的
    return parent1
```

测试数据

```
//测试实例
const son2_1 = document.getElementById('son2-1')
const baby = document.getElementById('baby')
commonParentNode(son2_1, baby)
const son2_2 = document.getElementById('son2-2')
commonParentNode(son2_1, son2_2)
const son1_1 = document.getElementById('son1-1')
commonParentNode(son1_1, son2_1)
```

测试输出结果

● 第三题

```
const _rank = arr => {
    arr.sort((a, b) => {
        let sum1 = 0, sum2 = 0
        for (let key in a) sum1 += a[key]
        for (let key in b) sum2 += b[key]
        return sum2 - sum1
    })
    return arr
}
```

测试数据

```
const arr = [
    { amount: 30, activeValue: 66, rank: 80 },
    { amount: 69, activeValue: 56, rank: 80 },
    { amount: 70, activeValue: 90, rank: 80 },
    { amount: 99, activeValue: 64, rank: 80 },
}
```

测试输出结果

```
console.log(_rank(arr));

v(4) [{...}, {...}, {...}] i

be: {amount: 99, activeValue: 64, rank: 80}

bl: {amount: 70, activeValue: 90, rank: 80}

bl: {amount: 69, activeValue: 56, rank: 80}

bl: {amount: 30, activeValue: 66, rank: 80}

length: 4

b[[Prototype]]: Array(0)
```

● 第四题

```
const people = [
   { id: '番茄1号', age: '20岁' },
    { id: '番茄2号', age: '21岁' },
   { id: '番茄3号', age: '19岁' },
function render1() {
   const container = document.getElementById('container')
   people.forEach(i => {
       let son = document.createElement('div')
       son.innerText = `${i.id} ${i.age}
       container.appendChild(son)
// render1()
function render2() {
   const container = document.getElementById('container')
   people.forEach(i => str += `<div>${i.id} ${i.age}</div> `)
   container.innerHTML = str
// render2()
```