

那么明确好了对应的概念之后，我们下面就可以实现对应逻辑了，因为咱们要实现的代码，本质上和 `vue` 中的代码一致，所以我们没有必要再重头写了一遍，我们只需要复制 `vue` 中的源码，然后修改一下变量名即可

1. 在 `patchKeyedChildren` 中, 添加场景五乱序逻辑:

<> 代码块

```

1 // 5. 乱序的 diff 比对
2 else {
3     const oldStartIndex = i
4     const newStartIndex = i
5     const keyToNewIndexMap = new Map()
6     for (i = newStartIndex; i <= newChildrenEnd; i++) {
7         const nextChild = normalizeVNode(newChildren[i])
8         if (nextChild.key != null) {
9             keyToNewIndexMap.set(nextChild.key, i)
10        }
11    }
12
13    let j
14    let patched = 0
15    const toBePatched = newChildrenEnd - newStartIndex + 1
16    let moved = false
17    let maxNewIndexSoFar = 0
18    const newIndexToOldIndexMap = new Array(toBePatched)
19    for (i = 0; i < toBePatched; i++) newIndexToOldIndexMap[i] = 0
20    for (i = oldStartIndex; i <= oldChildrenEnd; i++) {
21        const prevChild = oldChildren[i]
22        if (patched >= toBePatched) {
23            unmount(prevChild)
24            continue
25        }
26        let newIndex
27        if (prevChild.key != null) {
28            newIndex = keyToNewIndexMap.get(prevChild.key)
29        }
30
31        if (newIndex === undefined) {
32            unmount(prevChild)
33        }
34        else {
35            newIndexToOldIndexMap[newIndex - newStartIndex] = i + 1
36            if (newIndex >= maxNewIndexSoFar) {
37                maxNewIndexSoFar = newIndex
38            } else {
39                moved = true
40            }
41            patch(prevChild, newChildren[newIndex], container, null)
42            patched++
43        }
44    }
45
46    const increasingNewIndexSequence = moved

```

```

49     j = increasingNewIndexSequence.length - 1
50     for (i = toBePatched - 1; i >= 0; i--) {
51         const nextIndex = newStartIndex + i
52         const nextChild = newChildren[nextIndex]
53         const anchor =
54             nextIndex + 1 < newChildrenLength
55                 ? newChildren[nextIndex + 1].el
56                 : parentAnchor
57         if (newIndexToOldIndexMap[i] === 0) {
58             patch(null, nextChild, container, anchor)
59         } else if (moved) {
60             if (j < 0 || i !== increasingNewIndexSequence[j]) {
61                 move(nextChild, container, anchor)
62             } else {
63                 j--
64             }
65         }
66     }
67 }

```

2. 新增 move 方法：

<> 代码块

```

1  /**
2   * 移动节点到指定位置
3   */
4   const move = (vnode, container, anchor) => {
5       const { el } = vnode
6       hostInsert(el!, container, anchor)
7   }

```

至此，场景五的逻辑完成。

可以创建对应测试实例 <packages/vue/examples/imooc/runtime/render-element-diff-5.html>：

<> 代码块

```

1  <script>
2      const { h, render } = Vue
3
4      const vnode = h('ul', [
5          h('li', {
6              key: 1
7          }, 'a'),
8          h('li', {
9              key: 2
10             }, 'b'),
11             h('li', {
12                 key: 3
13             }, 'c'),
14             h('li', {
15                 key: 4
16             }, 'd'),
17             h('li', {
18                 key: 5
19             }, 'e')
20         ])
21         // 挂载
22         render(vnode, document.querySelector('#app'))
23
24         // 延迟两秒，生成新的 vnode，进行更新操作
25         setTimeout(() => {
26             const vnode2 = h('ul', [
27                 h('li', {
28                     key: 1
29                 }, 'new-a'),
30                 h('li', {
31                     key: 3
32                 }, 'new-c'),
33                 h('li', {
34                     key: 4
35                 }, 'new-d'),
36                 h('li', {
37                     key: 5
38                 }, 'new-e')
39             ])
40             render(vnode2, document.querySelector('#app'))
41         }, 2000)
42     </script>

```

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```
35     }, 'new-b'),
36     h('li', {
37       key: 6
38     }, 'new-f'),
39     h('li', {
40       key: 5
41     }, 'new-e'),
42   ])
43   render(vnode2, document.querySelector('#app'))
44 }, 2000);
45 </script>
```

测试成功

14: 源码阅读: 场景五: 乱序下的 diff 比对 ◀ 上一节 下一节 ▶ 16: 总结

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