

# DWA\_07

---

## 1. Which were the three best abstractions, and why?

```
55
56 //show more button that loads more books onto the app/web browser
57 const showmoreButton = document.querySelector('[data-list-button]')
58
59 const updateRemaining = () => {
60   // const remaining = books.length - (BOOKS_PER_PAGE * page)
61   // return remaining;
62 }
63
64 const showMore = (event) => {
65   event.preventDefault()
66   page += 1
67   const remaining = updateRemaining()
68   const hasRemaining = remaining > 0 ? remaining : 0
69
70   const rangeStart = (page - 1) * BOOKS_PER_PAGE
71   const rangeEnd = books.length - remaining
72   const extracted = books.slice(rangeStart, rangeEnd)
73
74   if (hasRemaining > 0) {
75     for (const books of extracted) {
76       const preview = createPreview(books)
77       fragment.appendChild(preview)
78     }
79   }
80   document.querySelector("[data-list-items]").appendChild(fragment);
81
82   const previewList = document.querySelectorAll('.preview')
83   const previewArray = Array.from(previewList)
84   for (const preview of previewArray) {
85     preview.addEventListener('click', activePreview)
86   }
87 }
88
89 showmoreButton.addEventListener("click", showMore)
90
91 showmoreButton.innerHTML = `
92   <span>Show more</span>
93   <span class="list_remaining">
94     ${updateRemaining()}
95   </span>
96 `
97
```

I used abstraction within my function and it works without breaking the app, even when changes are made at a later stage.

---

## 2. Which were the three worst abstractions, and why?

```
190  
191 //settings for theme toggle button  
192 document.querySelector('[data-settings-theme]').value = window.matchMedia && window.matchMedia('(prefers-color-scheme: dark)').  
    matches ? 'day' : 'night'  
193 let v = window.matchMedia && window.matchMedia('(prefers-color-scheme: dark)').matches ? 'day' : 'night'  
194
```

I could make this line easier to understand and be more maintainable.

---

## 3. How can the three worst abstractions be improved via SOLID principles?

I could have created a separate file to make maintaining the code easier.