

Solution Review: Avoiding Duplicates

Learn to avoid showing duplicated search.

We'll cover the following ^

- Solution:
- Exercises:

Solution:

The source of the five rendered buttons is the `getLastSearches` function. There, we take the array of `urls` and return the last five entries from it. Now we'll change this utility function to return the last six entries instead of five, removing the last one. Afterward, only the five *previous* searches are displayed as buttons.

```
const getLastSearches = urls =>
  urls
    .slice(-6)
    .slice(0, -1)
    .map(extractSearchTerm);
```



src/App.js

If the same search is executed twice or more times in a row, duplicate buttons appear, which is likely not your desired behavior. It would be acceptable to group identical searches into one button if they followed each other. We will solve this problem in the utility function as well. Before separating the array into the five previous searches, group the identical searches:

```
const getLastSearches = urls =>
  urls
    .reduce((result, url, index) => {
      const searchTerm = extractSearchTerm(url);

      if (index === 0) {
        return result.concat(searchTerm);
      }

      const previousSearchTerm = result[result.length - 1];

      if (searchTerm === previousSearchTerm) {
```



```

    return result;
  } else {
    return result.concat(searchTerm);
  }
}, [])
.slice(-6)
.slice(0, -1);

```

src/App.js

The reduce function starts with an empty array as its `result`. The first iteration concatenates the `searchTerm` we extracted from the first `url` into the `result`. Every extracted `searchTerm` is compared to the one before it. If the previous search term is different from the current, concatenate the `searchTerm` to the result. If the search terms are identical, return the result without adding anything.

Lastly, the SearchForm's input field should be set with the new `searchTerm` if one of the last search buttons is clicked. We can solve this using the state updater function for the specific value used in the SearchForm component.

```

const App = () => {
  ...

  const handleLastSearch = searchTerm => {
    setSearchTerm(searchTerm);

    handleSearch(searchTerm);
  };

  ...
};

```



src/App.js

Last, extract the feature's new rendered content from this section as a standalone component, to keep the App component lightweight:

```

const App = () => {
  ...

  const lastSearches = getLastSearches(urls);

  return (
    <div>
      ...
      <LastSearches
        lastSearches={lastSearches}
        onLastSearch={handleLastSearch}
      />
      ...
    </div>
  );
};

```



```
src/App.js
```

```

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```

- Confirm the changes from the last section.