

🔗 Assignment: Create an Article List Component Using Props and Children

🔗 Problem Statement

Create a **React component** named `ArticleList` that displays multiple **Article components**.

Each **Article** component should receive:

1. A **title prop** (string) – The article's title.
2. **Text content as children** (string) – The article's body.

◇ Requirements

- Use the provided **Article** component, where **children** must be a **string**.
- Create an **ArticleList** component that **renders multiple Article components** using an array of data.
- Use **Bootstrap classes** for styling.
- The **ArticleList** component should be imported and used inside **App.tsx**.

◇ Expected Behavior

- ☑ **Displays a list of articles**, each containing:
 - ✓ A **title** (passed as a prop).
 - ✓ A **body** (passed as children).
 - ✓ Styled with Bootstrap cards.

🔗 Provided `Article.tsx` Component

```
interface ArticleProps {
  title: string;
  children: string; // Restricting children to only text
}

const Article = ({title, children}: ArticleProps) => {
  return (
    <div className="card shadow-sm my-3">
      <div className="card-body">
        <h3 className="card-title">{title}</h3>
        <p className="card-text">{children}</p> { /* Displays text content */ }
      </div>
    </div>
  );
};

export default Article;
```

☒ **Do not modify this file.**

◇ **Task 1: Create `ArticleList.tsx`**

- **Import** the `Article` component.
- **Use an array** to store multiple articles (with `title` and `body`).
- **Use `.map()`** to render an `Article` component for each article in the array.

☒ **Example array structure:**

```
const articles = [  
  { title: "React Basics", body: "React is a JavaScript library for building UIs." },  
  { title: "Understanding Props", body: "Props allow components to receive data from their parent." },  
  { title: "What is Bootstrap?", body: "Bootstrap is a CSS framework that helps in designing responsive websites." },  
];
```

◇ **Task 2: Import & Use `ArticleList` in `App.tsx`**

- Import `ArticleList.tsx` in `App.tsx`.
- Ensure Bootstrap is applied for styling.
- The `App.tsx` should **only render the `ArticleList` component**.

Expected Output

Articles

React Basics

- ◇ React is a JavaScript library for building UIs.

Understanding Props

- ◇ Props allow components to receive data from their parent.

What is Bootstrap?

- ◇ Bootstrap is a CSS framework that helps in designing responsive websites.

☒ **Each article should be inside a Bootstrap-styled card.**
