1) Explain what the simple List component does.

List component generate a memorize/optimal version of Wrapped List Component memo is a higher order component will cause React to skip rendering a component if its props have not changed. Wrapped List Component only re-renders when the items that are passed to it through props are updated.

2) What problems / warnings are there with code?

```
shape Of is not a function instead of shape Of use shape use State is not correctly define incorrect: const [setSelectedIndex, selectedIndex] = useState(); correct:const [selectedIndex, setSelectedIndex] = useState(); warning: Each child in a list should have a unique "key" prop. So, need to add key property.
```

3) Please fix, optimize, and/or modify the component as much as you think is necessary.

```
onClickHandler: PropTypes.func.isRequired,
text: PropTypes.string.isRequired
};
const SingleListItem = memo(WrappedSingleListItem);
const WrappedListComponent = ({ items }) => {
const [selectedIndex, setSelectedIndex] = useState();
useEffect(() => {
setSelectedIndex(null);
}, [items]);
const handleClick = (index) => {
setSelectedIndex(index);
};
return (
{items?.map((item, index) => (
<SingleListItem
onClickHandler={() => handleClick(index)}
text={item.text}
index={index}
isSelected={selectedIndex}
key={index}
/>
))}
);
};
WrappedListComponent.propTypes = {
items: PropTypes.array(
PropTypes.shape({
text: PropTypes.string.isRequired
})
)
};
WrappedListComponent.defaultProps = {
items: null
};
const List = memo(WrappedListComponent);
```

export default List;