1.14 State Update

Are we finally done? Even if the user changes several condition values, the difference value of the vehicle model does not change properly.

So far, we've only updated a part of our app's status each time an event occurs.

```
this.setState({ config });
```

Now let's change the `carstats` state whenever the config state value changes.

```
statsUpdate() {
  const carModels = ['60', '60D', '75', '75D', '90D', 'P100D'];
  // Fetch model info from BatteryService and calculate then update state
  this.setState({
  carstats: this.calculateStats(carModels, this.state.config)
  })
}
```

Now we create a function that take the `carModels` and the current state value as inputs and reflects the changed `carStats` in the app state and pass it to `this.setState` as a callback.

By doing this, it is possible to update the `config` object first in `setState()`, which operates asynchronous method, and to render the changed `stats` on the screen based on this.

```
this.setState({ config }, () => {this.statsUpdate()});
```

This completes all the puzzles. The complete code for TeslaBattery is:

```
import React from 'react';
import './TeslaBattery.css';
import TeslaNotice from '../components/TeslaNotice/TeslaNotice';
import TeslaCar from '../components/TeslaCar/TeslaCar';
import TeslaStats from '../components/TeslaStats/TeslaStats';
import TeslaCounter from '../components/TeslaCounter/TeslaCounter';
import TeslaClimate from '../components/TeslaClimate/TeslaClimate';
import TeslaWheels from '../components/TeslaWheels/TeslaWheels';
import { getModelData } from '../services/BatteryService';
class TeslaBattery extends React.Component {
  constructor(props) {
    super(props);
    this.calculateStats = this.calculateStats.bind(this);
```

```javascript
    this.statsUpdate = this.statsUpdate.bind(this);
    this.increment = this.increment.bind(this);
    this.decrement = this.decrement.bind(this);
    this.updateCounterState = this.updateCounterState.bind(this);
    this.handleChangeClimate = this.handleChangeClimate.bind(this);
    this.handleChangeWheels = this.handleChangeWheels.bind(this);
    this.state = {
      carstats: [],
      config: {
        speed: 55,
        temperature: 20,
        climate: true,
        wheels: 19
      }
    }
  }
  calculateStats = (models, value) => {
    const dataModels = getModelData();
    return models.map(model => {
      const { speed, temperature, climate, wheels } = value;
      const miles = dataModels[model][wheels][climate ? 'on' : 'off'].speed[speed][temperature];
      return {
        model,
        miles
      };
    });
  }
  statsUpdate() {
    const carModels = ['60', '60D', '75', '75D', '90D', 'P100D'];
    // Fetch model info from BatteryService and calculate then update state
    this.setState({
      carstats: this.calculateStats(carModels, this.state.config)
    })
  }
  componentDidMount() {
    this.statsUpdate();
  }
  updateCounterState(title, newValue) {
    const config = { ...this.state.config };
    // update config state with new value
    title === 'Speed' ? config['speed'] = newValue : config['temperature'] = newValue;
    // update our state
    this.setState({ config }, () => {this.statsUpdate()});
  }
  increment(e, title) {
    e.preventDefault();
    let currentValue, maxValue, step;
    const { speed, temperature } = this.props.counterDefaultVal;
    if (title === 'Speed') {
      currentValue = this.state.config.speed;
      maxValue = speed.max;
      step = speed.step;
    } else {
      currentValue = this.state.config.temperature;
      maxValue = temperature.max;
      step = temperature.step;
    }
    if (currentValue < maxValue) {
      const newValue = currentValue + step;
      this.updateCounterState(title, newValue);
    }
  }
```

```
  decrement(e, title) {
    e.preventDefault();
    let currentValue, minValue, step;

    const { speed, temperature } = this.props.counterDefaultVal;
    if (title === 'Speed') {
      currentValue = this.state.config.speed;
      minValue = speed.min;
      step = speed.step;
    } else {
      currentValue = this.state.config.temperature;
      minValue = temperature.min;
      step = temperature.step;
    }
    if (currentValue > minValue) {
      const newValue = currentValue - step;
      this.updateCounterState(title, newValue);
    }
  }
}
// handle aircon & heating click event handler
handleChangeClimate() {
  const config = {...this.state.config};
  config['climate'] = !this.state.config.climate;
  this.setState({ config }, () => {this.statsUpdate()});
}
// handle Wheels click event handler
handleChangeWheels(size) {
  const config = {...this.state.config};
  config['wheels'] = size;
  this.setState({ config }, () => {this.statsUpdate()});
}
render() {
  const { config, carstats } = this.state;
  return (
    <form className="tesla-battery">
      <h1>Range Per Charge</h1>
      <TeslaCar wheelsize={config.wheels} />
      <TeslaStats carstats={carstats} />
      <div className="tesla-controls cf">
        <TeslaCounter
          currentValue={this.state.config.speed}
          initValues={this.props.counterDefaultVal.speed}
          increment={this.increment}
          decrement={this.decrement}
        />
        <div className="tesla-climate-container cf">
          <TeslaCounter
            currentValue={this.state.config.temperature}
            initValues={this.props.counterDefaultVal.temperature}
            increment={this.increment}
            decrement={this.decrement}
          />
          <TeslaClimate
            value={this.state.config.climate}
            limit={this.state.config.temperature > 10}
            handleChangeClimate={this.handleChangeClimate}
          />
        </div>
        <TeslaWheels
          value={this.state.config.wheels}
          handleChangeWheels={this.handleChangeWheels}
        />
      </div>
```

```
        <TeslaNotice />
      </form>
    )
  }
}
export default TeslaBattery;
```

```
export function getModelData() {
    return {
      '60': {
        19: {
          on: {
            speed: {
              45: {
                '-10': 224,
                '0': 255,
                '10': 287,
                '20': 289,
                '30': 287,
                '40': 258
              },
              50: {
                '-10': 211,
                '0': 238,
                '10': 264,
                '20': 267,
                '30': 267,
                '40': 244
              },
              55: {
                '-10': 198,
                '0': 221,
                '10': 242,
                '20': 246,
                '30': 245,
                '40': 228
              },
              60: {
                '-10': 184,
                '0': 204,
                '10': 222,
                '20': 225,
                '30': 226,
                '40': 212
              },
              65: {
                '-10': 170,
                '0': 187,
                '10': 202,
                '20': 206,
                '30': 208,
                '40': 195
              },
              70: {
                '-10': 156,
                '0': 172,
                '10': 185,
                '20': 189,
                '30': 190,
                '40': 179
```

            },
          }
        },
        off: {
          speed: {
            45: {
              '-10': 297,
              '0': 312,
              '10': 318,
              '20': 325,
              '30': 329,
              '40': 333
            },
            50: {
              '-10': 269,
              '0': 283,
              '10': 288,
              '20': 294,
              '30': 298,
              '40': 304
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            55: {
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              '0': 256,
              '10': 261,
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              '30': 269,
              '40': 277
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            60: {
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              '0': 231,
              '10': 236,
              '20': 242,
              '30': 243,
              '40': 252
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            65: {
              '-10': 200,
              '0': 209,
              '10': 214,
              '20': 219,
              '30': 222,
              '40': 230
            },
            70: {
              '-10': 181,
              '0': 189,
              '10': 194,
              '20': 199,
              '30': 202,
              '40': 209
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          }
        }
      },
      21: {
        on: {
          speed: {
            45: {
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              '0': 251,
              '10': 283,

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      50: {
        '-10': 208,
        '0': 234,
        '10': 260,
        '20': 262,
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        '40': 240
      },
      55: {
        '-10': 194,
        '0': 216,
        '10': 238,
        '20': 241,
        '30': 240,
        '40': 224
      },
      60: {
        '-10': 180,
        '0': 199,
        '10': 217,
        '20': 220,
        '30': 221,
        '40': 208
      },
      65: {
        '-10': 166,
        '0': 183,
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        '40': 191
      },
      70: {
        '-10': 152,
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    }
  },
  off: {
    speed: {
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        '30': 324,
        '40': 328
      },
      50: {
        '-10': 265,
        '0': 278,
        '10': 283,
        '20': 289,
        '30': 293,
```

```
          '40': 298
        },
        55: {
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          '20': 261,
          '30': 264,
          '40': 272
        },
        60: {
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          '0': 226,
          '10': 231,
          '20': 236,
          '30': 238,
          '40': 247
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        65: {
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          '0': 204,
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        70: {
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      }
    }
  }
},
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  19: {
    on: {
      speed: {
        45: {
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          '0': 258,
          '10': 291,
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        55: {
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```
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          },
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            speed: {
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                '30': 336,
                '40': 339
              },
              50: {
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                '0': 288,
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                '30': 306,
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              55: {
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                '0': 260,
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                '40': 283
              },
              60: {
                '-10': 225,
                '0': 236,
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```

```
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          '0': 214,
          '10': 219,
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          '30': 229,
          '40': 236
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        70: {
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          '0': 193,
          '10': 198,
          '20': 205,
          '30': 207,
          '40': 215
        },
      }
    }
  },
  21: {
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        45: {
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          '20': 289,
          '30': 288,
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          '30': 267,
          '40': 246
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        55: {
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          '0': 220,
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          '30': 246,
          '40': 230
        },
        60: {
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```

```
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            }
          },
          off: {
            speed: {
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                '30': 331,
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                '0': 283,
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                '20': 296,
                '30': 301,
                '40': 306
              },
              55: {
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                '0': 256,
                '10': 261,
                '20': 268,
                '30': 272,
                '40': 278
              },
              60: {
                '-10': 221,
                '0': 231,
                '10': 236,
                '20': 242,
                '30': 246,
                '40': 253
              },
              65: {
                '-10': 199,
                '0': 209,
                '10': 214,
                '20': 220,
                '30': 223,
                '40': 231
              },
              70: {
                '-10': 180,
                '0': 188,
                '10': 193,
                '20': 200,
                '30': 202,
                '40': 210
              },
```

```
          }
        }
      }
    },
    '75': {
      19: {
        on: {
          speed: {
            45: {
              '-10': 271,
              '0': 309,
              '10': 347,
              '20': 350,
              '30': 347,
              '40': 312
            },
            50: {
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            },
            55: {
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            60: {
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              '30': 273,
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            },
            65: {
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            },
          }
        },
        off: {
          speed: {
            45: {
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```

```
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          '10': 385,
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          '40': 403
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        50: {
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          '30': 360,
          '40': 368
        },
        55: {
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          '30': 326,
          '40': 335
        },
        60: {
          '-10': 268,
          '0': 280,
          '10': 286,
          '20': 292,
          '30': 295,
          '40': 305
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        65: {
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          '10': 259,
          '20': 265,
          '30': 268,
          '40': 278
        },
        70: {
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          '10': 234,
          '20': 241,
          '30': 244,
          '40': 253
        },
      }
    }
  },
  21: {
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      speed: {
        45: {
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          '30': 342,
          '40': 308
        },
        50: {
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```

```
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          '30': 317,
          '40': 290
        },
        55: {
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          '0': 262,
          '10': 287,
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          '30': 291,
          '40': 271
        },
        60: {
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          '0': 241,
          '10': 262,
          '20': 266,
          '30': 267,
          '40': 251
        },
        65: {
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          '0': 222,
          '10': 239,
          '20': 244,
          '30': 246,
          '40': 231
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          '-10': 184,
          '0': 203,
          '10': 218,
          '20': 223,
          '30': 224,
          '40': 211
        },
      }
    },
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        45: {
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        },
        50: {
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          '0': 336,
          '10': 343,
          '20': 350,
          '30': 354,
          '40': 361
        },
        55: {
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          '0': 303,
          '10': 309,
```

```
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            60: {
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              '10': 279,
              '20': 286,
              '30': 288,
              '40': 299
            },
            65: {
              '-10': 237,
              '0': 247,
              '10': 253,
              '20': 259,
              '30': 262,
              '40': 272
            },
            70: {
              '-10': 214,
              '0': 223,
              '10': 229,
              '20': 235,
              '30': 238,
              '40': 247
            },
          }
        }
      }
    },
    '75D': {
      19: {
        on: {
          speed: {
            45: {
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              '30': 357,
              '40': 323
            },
            50: {
              '-10': 262,
              '0': 296,
              '10': 328,
              '20': 332,
              '30': 332,
              '40': 305
            },
            55: {
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              '10': 302,
              '20': 306,
              '30': 307,
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            },
            60: {
              '-10': 228,
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```
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          '40': 265
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        65: {
          '-10': 211,
          '0': 233,
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          '30': 260,
          '40': 246
        },
        70: {
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          '0': 214,
          '10': 231,
          '20': 236,
          '30': 238,
          '40': 226
        },
      }
    },
    off: {
      speed: {
        45: {
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          '0': 387,
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          '30': 410,
          '40': 415
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        50: {
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          '30': 374,
          '40': 380
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        55: {
          '-10': 304,
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          '20': 334,
          '30': 339,
          '40': 346
        },
        60: {
          '-10': 275,
          '0': 288,
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          '20': 303,
          '30': 307,
          '40': 316
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        65: {
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          '10': 267,
```

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          70: {
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            '0': 236,
            '10': 242,
            '20': 250,
            '30': 253,
            '40': 263
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        }
      }
    },
    21: {
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        speed: {
          45: {
            '-10': 273,
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            '10': 351,
            '20': 354,
            '30': 352,
            '40': 318
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          50: {
            '-10': 258,
            '0': 291,
            '10': 323,
            '20': 326,
            '30': 327,
            '40': 300
          },
          55: {
            '-10': 241,
            '0': 269,
            '10': 296,
            '20': 300,
            '30': 301,
            '40': 281
          },
          60: {
            '-10': 223,
            '0': 248,
            '10': 270,
            '20': 275,
            '30': 277,
            '40': 259
          },
          65: {
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            '0': 228,
            '10': 247,
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            '30': 254,
            '40': 240
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          70: {
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            '0': 209,
            '10': 225,
```

```
                '20': 230,
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              },
            }
          },
          off: {
            speed: {
              45: {
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                '10': 390,
                '20': 398,
                '30': 405,
                '40': 409
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                '30': 368,
                '40': 373
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              55: {
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                '0': 312,
                '10': 319,
                '20': 327,
                '30': 333,
                '40': 340
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              60: {
                '-10': 270,
                '0': 282,
                '10': 288,
                '20': 296,
                '30': 301,
                '40': 309
              },
              65: {
                '-10': 244,
                '0': 255,
                '10': 261,
                '20': 269,
                '30': 273,
                '40': 282
              },
              70: {
                '-10': 219,
                '0': 230,
                '10': 236,
                '20': 244,
                '30': 247,
                '40': 257
              },
            }
          }
        }
      },
      '90D': {
        19: {
```

```
      on: {
        speed: {
          45: {
            '-10': 308,
            '0': 349,
            '10': 392,
            '20': 394,
            '30': 392,
            '40': 357
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          50: {
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            '30': 365,
            '40': 338
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          55: {
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            '0': 303,
            '10': 332,
            '20': 336,
            '30': 337,
            '40': 317
          },
          60: {
            '-10': 254,
            '0': 280,
            '10': 305,
            '20': 308,
            '30': 310,
            '40': 293
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    }
  }
}
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