

**State an advantage for using in-mapper combiner:**

It reduces the amount of data sent between the mapper and reducer, making the process faster and more efficient.

**State a disadvantage for using in-mapper combiner:**

It uses more memory to store temporary results. Which can cause problems if there is too much data needed to handle.

**Is it true or false, and why.**

- **The output of MapReduce is a single value:**
  - FALSE, the output is usually a list of key-value pair
- **The final output of MapReduce is different if you use in-mapper combiner or not:**
  - FALSE, the output is still the same if we are using an in-mapper combiner technique. It just speeds up the process by reducing unnecessary data but doesn't change the result.