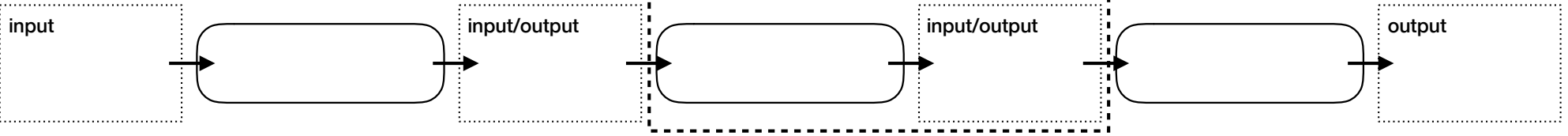| input		input/output	optional	input/output		output

---

What are the input and output of the map and reduce phases for the following tasks?

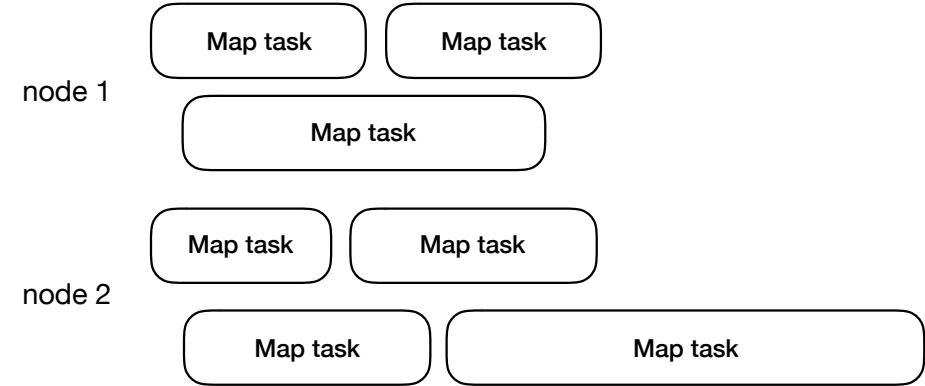Task: count the occurrences of each word in 1,000,000,000 books

Map phase   Reduce phase

Task: calculate the sentiment of each of 1,000,000,000 movie reviews

Map phase   Reduce phase

Multi-node architecture

Requirements for map and reduce tasks

node 1
- Map task
- Map task
- Map task

node 2
- Map task
- Map task
- Map task
- Map task