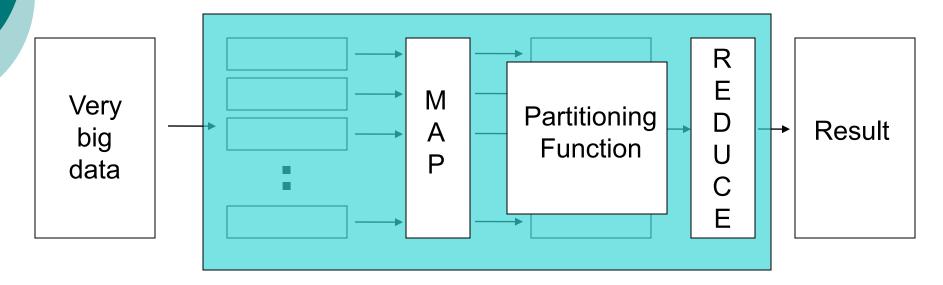
Map Reduce

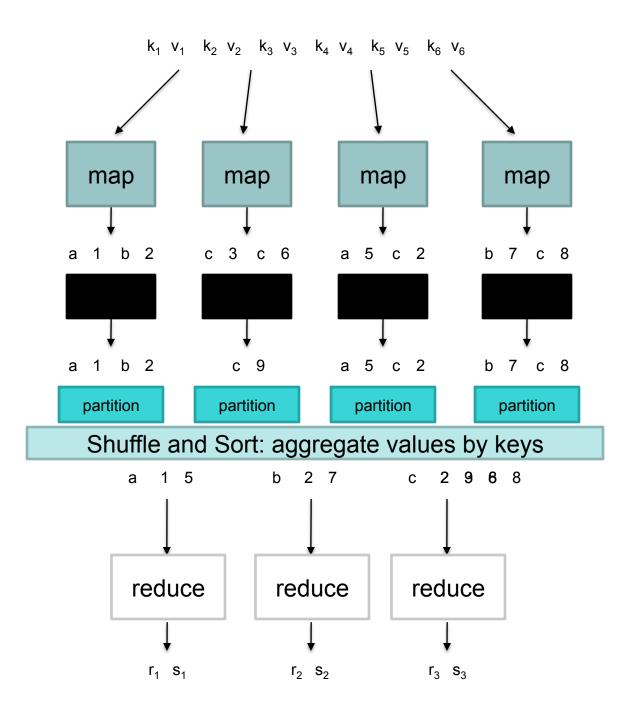


o Map:

- Accepts input key/ value pair
- Emits intermediate key/value pair

o Reduce :

- Accepts intermediate key/value* pair
- Emits output key/value pair





MapReduce

```
Class MapReduce{
Class Mapper ...{
   Map code;
Class Reduer ...{
   Reduce code;
Main(){
  JobConf Conf=new JobConf("MR.Class");
  Other code;
```



Example

- Page 1: the weather is good
- Page 2: today is good
- Page 3: good weather is good.



Map output

- O Worker 1:
 - (the 1), (weather 1), (is 1), (good 1).
- O Worker 2:
 - (today 1), (is 1), (good 1).
- O Worker 3:
 - (good 1), (weather 1), (is 1), (good 1).



Reduce Input

- O Worker 1:
 - (the 1)
- O Worker 2:
 - (is 1), (is 1), (is 1)
- O Worker 3:
 - (weather 1), (weather 1)
- O Worker 4:
 - (today 1)
- O Worker 5:
 - (good 1), (good 1), (good 1)



Reduce Output

- O Worker 1:
 - (the 1)
- O Worker 2:
 - (is 3)
- O Worker 3:
 - (weather 2)
- O Worker 4:
 - (today 1)
- O Worker 5:
 - (good 4)

