CSE427S



CSE427s - 2a [P] MR1: MR on Weather Data

0	1. How would you compute the maximum temperature per year from <i>all</i> 1.4 billion daily weather records in the National Climatic Data Center database? group the data, then sort them separately and then combine the result
0	2. Okay, let's do it! First we extract year and temperature for each record. That is the <i>Map phase</i> . What is the Map phase output for the 6 weather records in our

(1901,206) (1904,39)

example?

- 3. Now, we group the temperatures by year and sort the results by year. That is the Group & Sort phase. What is the Group & Sort phase output for our example data?
- 4. And now? ...well let's **get the maximum** per year! This step is called the *Reduce phase*. What is the Reduce phase output for our example data?

(1901,206) (1904,350)

Yang, Wu Page 1 of 1