

# Module 3: Hadoop MapReduce Framework - I

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## Assignment

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Assignment – Calculate the number of sub-patents

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## Introduction

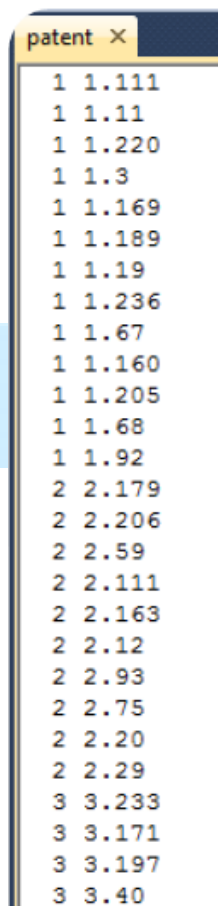
Apply your MapReduce programming knowledge and write a MapReduce program to process a dataset with patent records. You need to calculate the number of sub-patents associated with each patent.

The dataset for this problem is the '**patent**' records file available in your LMS.

## Problem statement

Let's understand the problem through a subset of patent records as shown in the following figure:

**FIGURE 1-1 PATENT RECORDS**



1	1.111
1	1.11
1	1.220
1	1.3
1	1.169
1	1.189
1	1.19
1	1.236
1	1.67
1	1.160
1	1.205
1	1.68
1	1.92
2	2.179
2	2.206
2	2.59
2	2.111
2	2.163
2	2.12
2	2.93
2	2.75
2	2.20
2	2.29
3	3.233
3	3.171
3	3.197
3	3.40

Each patent has sub-patent id's associated with it. You need to calculate the number of sub-patent associated with each patent. Here is the sample output:

### Sample Output

Patent	Number of Associated Sub-patents
1	13
2	10
3	4

Your task in this assignment is to process the '**patent**' records using MapReduce program and count the number of associated sub-patents for each patent is in this dataset.

You can review the solution in your LMS.

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