Overall Structure

Simple PageRank

PageRankMapper.java

```
keyIn:
valueIn: srcNodeId;desNodeId1,desNodeId...;

keyOut:
valueOut: NODEINFO;desNodeId1,desNodeId2...;srcOldNodePageRank;

foreach desNode:
    keyOut:
    valueOut: NEXTPAGERANK;nextPageRank;
```

PageRankReducer

```
keyIn: srcNodeId
valueIn: NEXTPAGERANK;nextPageRank;
Or
valueIn: NODEINFO;desNodeId1,desNodeId2...;srcNodePageRank;

keyOut:
valueOut: srcNodeId;desNodeId1,desNodeId2...;srcNodeDegree;srcNodePageRank;
```