In [ ]:

```
class ReverseWebLinkGraph(MRJob):
             def mapper(self, _, line):
    vertex, neighbors = line.strip().split('->')
    neighborsList = neighbors.split(',')
                  for nieghbor in neighborsList:
                      yield nieghbor,vertex
              def reducer(self, key, values):
                  yield key, list(values)
              def steps(self):
                  return [
                      MRStep(mapper=self.mapper, reducer=self.reducer)
         if __name__ == '__main__':
             ReverseWebLinkGraph.run()
         Writing q1.py
In [2]: !python q1.py file.txt
                                                                                                                                                                                                $
         "1"
                  ["3"]
                  [ 3 ]
["1","5","7"]
["2","6"]
["1","2"]
["5"]
         "2"
"3"
          "4"
         No configs found; falling back on auto-configuration No configs specified for inline runner
         Creating temp directory C:\Users\DELL\AppData\Local\Temp\q1.DELL.20240430.170913.836651
         Running step 1 of 1...
         job output is in C:\Users\DELL\AppData\Local\Temp\q1.DELL.20240430.170913.836651\output
         Streaming final output from C:\Users\DELL\AppData\Local\Temp\q1.DELL.20240430.170913.836651\output...
         Removing temp directory C:\Users\DELL\AppData\Local\Temp\q1.DELL.20240430.170913.836651...
```