```
from mrjob.job import MRJob
            from mrjob.step import MRStep
            {\bf class} \ \ {\bf pageRankSimple} ({\tt MRJob}):
                def mapper(self, _, line):
    vertexImp, neighbors = line.strip().split('->')
    neighborsList = neighbors.split(',')
                      vertex,imp = vertexImp.split(',')
                     #First Type of Packet Generation
for neighbor in neighborsList:
                          yield vertex,(neighbor,'n')
                     #Second Type of Packet Generation
eachImp=float(float(imp)/len(neighborsList))
                     \textbf{for} \ \text{neigbor} \ \underline{\textbf{in}} \ \text{neighborsList:}
                          yield neigbor,(eachImp,'imp')
                def reducer(self, key, values):
                      sumImp=0
                      neighbors=[]
                      for value in values:
                          if(value[1]=='imp'):
                               sumImp=sumImp+value[0]
                          else:
                               neighbors.append(value[0])
                     yield key,sumImp
                      if(neighbors):
                          yield key,neighbors
                def steps(self):
                     return [
                          MRStep(mapper=self.mapper, reducer=self.reducer)
            if name == '
                                main ':
                pageRankSimple.run()
```

Overwriting q1.py

```
In [13]: !python q1.py file3.txt

        "1"
"1"
               0.8
               ["2","4"]
               1.6
               ["3","4"]
               1.20000000000000000
               ["1"]
               0.8
               ["0"]
        "5"
"6"
"6"
"7"
               ["6","2"]
               0.4
               ["3"]
               ["2"]
        No configs found; falling back on auto-configuration
        No configs specified for inline runner
        Running step 1 of 1...
        job output is in C:\Users\DELL\AppData\Local\Temp\q1.DELL.20240501.061509.155135\output
        Streaming final output from C:\Users\DELL\AppData\Local\Temp\q1.DELL.20240501.061509.155135\output...
        Removing temp directory C:\Users\DELL\AppData\Local\Temp\q1.DELL.20240501.061509.155135...
In [ ]:
```