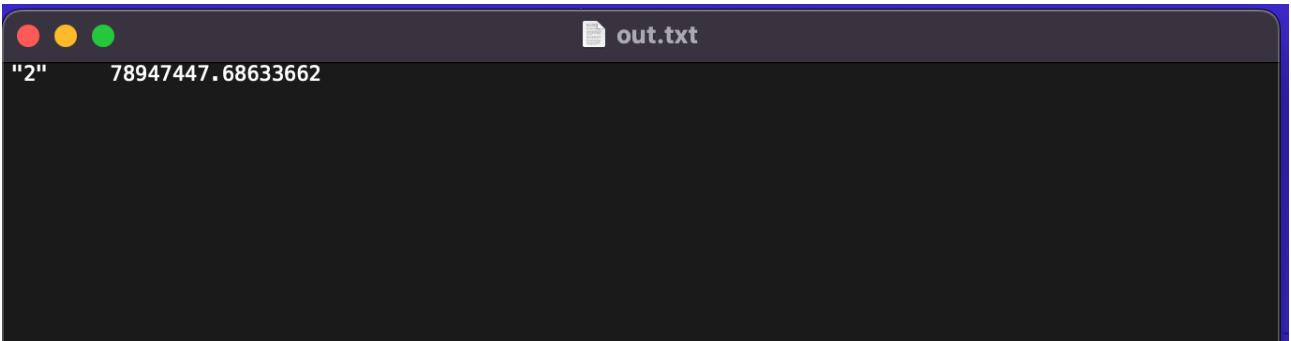


## Task 4:

### A input

```
~/downloads -- python r.py                                     ~/downloads/Big_data_assignment -- python mrtask_a.py ~/Downloads/yellow_tripdata_2017-02.csv +  
Last login: Tue Jul 11 14:52:07 on ttys002  
(base) ashutoshkaushal@Ashutosh-MacBook-Air downloads % python task4-6.py /Users/ashutoshkaushal/Downloads/yellow_tripdata_2017-02.csv > out.txt  
Traceback (most recent call last):  
  File "/Users/ashutoshkaushal/Downloads/task4-6.py", line 40, in <module>  
    if name == '__main__':  
NameError: name '__main__' is not defined  
(base) ashutoshkaushal@Ashutosh-MacBook-Air downloads % python task4-6.py /Users/ashutoshkaushal/Downloads/yellow_tripdata_2017-02.csv > out.txt  
No configs found; falling back on auto-configuration  
No configs specified for inline runner  
Creating temp directory /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/task4-6.ashutoshkaushal.20230711.145132.400552  
Running step 1 of 2...  
Job output is in /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/task4-6.ashutoshkaushal.20230711.145132.400552/output  
Streaming final output from /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/task4-6.ashutoshkaushal.20230711.145132.400552/output...  
Removing temp directory /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/task4-6.ashutoshkaushal.20230711.145132.400552...  
(base) ashutoshkaushal@Ashutosh-MacBook-Air downloads % vi batch.ingest.py  
(base) ashutoshkaushal@Ashutosh-MacBook-Air downloads % python task4-6.py /Users/ashutoshkaushal/Downloads/yellow_tripdata_2017-0..2.csv > out.txt  
python: can't open file '/Users/ashutoshkaushal/Downloads/task4-6.py': [Errno 2] No such file or directory  
(base) ashutoshkaushal@Ashutosh-MacBook-Air downloads % python task4-6.py /Users/ashutoshkaushal/Downloads/yellow_tripdata_2017-02.csv > out.txt  
python: can't open file '/Users/ashutoshkaushal/Downloads/task4-6.py': [Errno 2] No such file or directory  
(base) ashutoshkaushal@Ashutosh-MacBook-Air downloads % cd Big_data_assignment  
(base) ashutoshkaushal@Ashutosh-MacBook-Air Big_data_assignment % python mrtask_a.py /Users/ashutoshkaushal/Downloads/yellow_tripdata_2017-02.csv > out.txt  
No configs found; falling back on auto-configuration  
No configs specified for inline runner  
Creating temp directory /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_a.ashutoshkaushal.20230711.152840.166990  
Running step 1 of 2...
```

### output

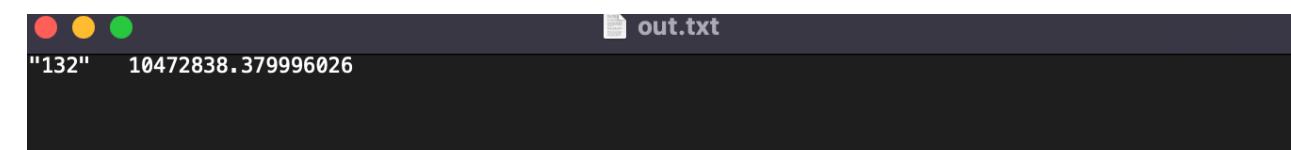


```
"2" 78947447.68633662
```

### B Input

```
(base) ashutoshkaushal@Ashutosh-MacBook-Air Big_data_assignment % python mrtask_b.py /Users/ashutoshkaushal/Downloads/yellow_tripdata_2017-02.csv > out.txt  
No configs found; falling back on auto-configuration  
No configs specified for inline runner  
Creating temp directory /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_b.ashutoshkaushal.20230711.153320.026874  
Running step 1 of 2...  
Running step 2 of 2...  
Job output is in /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_b.ashutoshkaushal.20230711.153320.026874/output  
Streaming final output from /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_b.ashutoshkaushal.20230711.153320.026874/output...  
Removing temp directory /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_b.ashutoshkaushal.20230711.153320.026874...  
(base) ashutoshkaushal@Ashutosh-MacBook-Air Big_data_assignment %
```

### Output

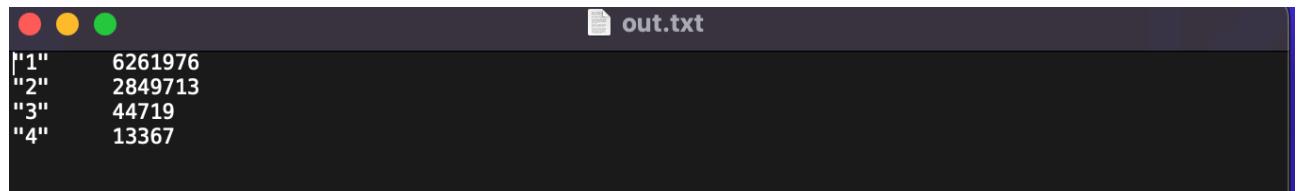


```
"132" 10472838.379996026
```

## C Input

```
((base) ashutoshkaushal@Ashutosh-MacBook-Air Big_data_assignment % python mrtask_c.py /Users/ashutoshkaushal/Downloads/yellow_tripdata_2017-02.csv > out.txt
No configs found; falling back on auto-configuration
No configs specified for inline runner
Creating temp directory /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_c.ashutoshkaushal.20230711.153725.207790
Running step 1 of 2...
Running step 2 of 2...
job output is in /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_c.ashutoshkaushal.20230711.153725.207790/output
Streaming final output from /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_c.ashutoshkaushal.20230711.153725.207790/output...
Removing temp directory /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_c.ashutoshkaushal.20230711.153725.207790...
(base) ashutoshkaushal@Ashutosh-MacBook-Air Big_data_assignment %
```

## Output



```
"1" 6261976
"2" 2849713
"3" 44719
"4" 13367
```

## D

### Input

```
((base) ashutoshkaushal@Ashutosh-MacBook-Air Big_data_assignment % python mrtask_d.py /Users/ashutoshkaushal/Downloads/yellow_tripdata_2017-02.csv > out.txt
No configs found; falling back on auto-configuration
No configs specified for inline runner
Creating temp directory /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_d.ashutoshkaushal.20230711.153949.825345
Running step 1 of 2...
Running step 2 of 2...
job output is in /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_d.ashutoshkaushal.20230711.153949.825345/output
Streaming final output from /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_d.ashutoshkaushal.20230711.153949.825345/output...
Removing temp directory /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_d.ashutoshkaushal.20230711.153949.825345...
(base) ashutoshkaushal@Ashutosh-MacBook-Air Big_data_assignment %
```

## Output



```
"176" 34.95
"189" 18.375
"132" 16.09914361865465
"184" 15.92250000000001
"2" 15.8616666666666665
"19" 14.7690239520976
"215" 14.762230803919
"219" 14.276243083922657
"130" 11.267958115183252
"203" 10.51847619847619
"38" 10.50831250000001
"29" 10.444374999999999
"84" 10.444374999999999
"138" 9.831027932327174
"124" 9.375384615384617
"93" 9.25630526315789
"101" 9.175999999999998
"218" 8.042443119266047
"99" 8.874
"28" 8.68849710982659
"252" 8.228392857142858
"210" 8.1966827454998038
"51" 7.931041666666666
"17" 7.023214285714286
"64" 7.648333333333333
"15" 7.6076
"23" 7.558571428571429
"205" 7.3921052631578945
"155" 7.302727277727273
"13" 7.125459183673468
"59" 7.199999999999999
"253" 7.023214285714286
"70" 6.882371505861134
"30" 6.745
"218" 6.674230769230767
"44" 6.0984
"154" 5.406176470588233
"139" 6.201764705882353
"194" 6.125459183673468
"122" 6.109411764705883
"105" 6.059840999999999
"23" 5.989810999999999
"19" 5.74745069803921565
"53" 5.706610169491526
"46" 5.648571428571429
"288" 5.6473469387755895
"191" 5.558571428571429
"95" 5.4258823679419
"200" 5.471578947368423
"31" 5.470476198476192
"134" 5.292506265664163
"39" 5.253731343283584
"3" 5.199999999999999
"81" 5.2812
"14" 5.211791539944625
"128" 5.182372881355932
"131" 5.03
"17" 5.073636363636965
"180" 4.986633333333335
"211" 4.974285714285716
"249" 4.973876923876923
"76" 4.962510121457489
"197" 4.954678014184397
"6" 4.93548076923077
"281" 4.93548076923077
"58" 4.8999999999999995
"214" 4.8766666666666668
"35" 4.867142857142857
"157" 4.866571428571427
"158" 4.866571428571427
```

"19"	5.747458988921565
"53"	5.70668169491526
"46"	5.648571428571429
"288"	5.6473469387755095
"191"	5.535692307692308
"56"	5.522882333333339
"200"	5.50157142857142776
"31"	5.470476130476192
"134"	5.29256265664163
"39"	5.253731343283584
"3"	5.246250000000001
"41"	5.23176
"14"	5.181781530044625
"128"	5.182372881353932
"131"	5.183
"15"	5.01363636363636365
"180"	4.980833333333335
"12"	4.962510121457487
"248"	4.973876923676923
"76"	4.962510121457489
"197"	4.954078814184397
"8"	4.935468769236777
"281"	4.925
"50"	4.88029929929929995
"214"	4.8766666666666668
"35"	4.867142857142857
"157"	4.866571428571427
"192"	4.791449275362319
"22"	4.78887
"93"	4.7881151079136
"21"	4.630425531014894
"72"	4.62973913043478
"88"	4.62866058763991
"182"	4.616138613861386
"183"	4.573579411764786
"42"	4.562510121457487
"86"	4.473076923076923
"245"	4.418333333333334
"135"	4.400355029585798
"196"	4.358199668189665
"94"	4.3086199668189667
"195"	4.28768818434813
"87"	4.281485943198069
"168"	4.270000000000002
"248"	4.223965517241379
"73"	4.209583333333334
"228"	4.1962510121457475
"24"	4.1724000000000004
"16"	4.16127659574468
"95"	4.156677847658983
"12"	4.1449317038182045
"212"	4.088181818181818
"99"	4.0802992992992997
"128"	4.022515757575757
"92"	4.018391812865496
"71"	3.98127450998039204
"55"	3.9781818181818185
"258"	3.967396732673269
"90"	3.94873617021397
"13"	3.9148136170213914
"177"	3.9112711864466764
"33"	3.89361853832443
"244"	3.826628775918324
"68"	3.820816199626394
"127"	3.814758593750006
"96"	3.81125
"98"	3.77282851282620517
"289"	3.7665658149626907
"65"	3.736554594940675
"77"	3.728400000000003
"243"	3.69782000244545
"78"	3.6738789677419354
"52"	3.668665447228903
"54"	3.6652527472527487
"257"	3.652038769230766
"22"	3.6282828295331166
"29"	3.62846266637737
"165"	3.5253125
"136"	3.514954954954956
"40"	3.509162722978534
"174"	3.499749999999997
"93"	3.489818810188171
"254"	3.489818810188185
"227"	3.4761764785882365
"259"	3.4632653061224494
"171"	3.450555555555555
"126"	3.426923076923076
"89"	3.398427359427340477
"57"	3.40636363636363657
"6"	3.4019325483769672
"11"	3.400000000000001
"147"	3.39847269662921354
"102"	3.3804273594273404
"47"	3.3804273594273404
"223"	3.3654005671747615
"188"	3.3357641196013303
"202"	3.32669666292134827
"175"	3.32
"24"	3.308696257958536
"85"	3.265898410058905
"18"	3.26359223300971
"61"	3.263312856516011
"133"	3.212471264367814
"190"	3.2070746268655705
"226"	3.199368932039839
"36"	3.199368932039839
"62"	3.1799804975124383
"116"	3.176416323731132
"67"	3.1783921568627456
"24"	3.178138718954248
"322"	3.178138718954248
"268"	3.157329467239974
"181"	3.147905157970494

"18"	3.26359223300971
"61"	3.263312856516011
"133"	3.212471264367814
"189"	3.2678746268656785
"10"	3.1573294679335935
"36"	3.190368023038839
"62"	3.1799004975124383
"116"	3.176416323731132
"67"	3.1703921568627456
"21"	3.1703387708000004
"222"	3.158802997741527
"268"	3.1573294679339974
"181"	3.14789157970494
"123"	3.1499635036496934
"235"	3.1297916666666676
"254"	3.1297916666666676
"25"	3.11452599089255
"129"	3.095192512519254
"60"	3.068906250000001
"265"	3.04739790944389934
"255"	3.031536045106735
"209"	3.0092794770884533
"112"	3.0092794770884533
"256"	2.996597259907043
"186"	2.996313953488366
"82"	2.9945181852268488
"97"	2.993868785685315
"119"	2.993868785685315
"153"	2.9884545454545464
"173"	2.9699025974025965
"83"	2.9622203245089698
"20"	2.9552380992380957
"247"	2.9526614363387204
"100"	2.9481491818181818
"63"	2.9448148148148143
"45"	2.941673179228856
"266"	2.94
"37"	2.920656910569112
"142"	2.9106128000000005
"179"	2.88691551186276
"146"	2.878227236099266
"231"	2.8165943376496796
"225"	2.7837934165075686
"49"	2.75662015903876
"272"	2.75662015903876
"185"	2.75662015903876
"108"	2.7504925737313434
"167"	2.7451818181818183
"189"	2.7181295882540706
"238"	2.709659746546946
"159"	2.709659746546946
"74"	2.7058573660177096
"17"	2.698122439020522
"26"	2.6594444444444436
"166"	2.64869592123408
"159"	2.625274598808392
"157"	2.625274598808392
"4"	2.5769564064689745
"168"	2.5640591848129555
"145"	2.552509551765987
"264"	2.53822826054886
"137"	2.497915360819632
"144"	2.4727492874745732
"233"	2.4727492874745289
"24"	2.4577720112568797
"50"	2.4508909863370882
"158"	2.4486143222277095
"149"	2.431176476582357
"79"	2.424242546914116

E

Input

```
(base) ashutoshkaushal@Ashutoshs-MacBook-Air Big_data_assigment % python mrtask_e.py /Users/ashutoshkaushal/Downloads/yellow_tripdata_2017-02.csv > out.txt
No config found; falling back on auto-configuration
No config specified for inline runner
Creating temp directory /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_e.ashutoshkaushal.20230711.154450.188989
Running step 1 of 1...
job output is in /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_e.ashutoshkaushal.20230711.154450.188989/output
Streaming final output from /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_e.ashutoshkaushal.20230711.154450.188989/output...
Removing temp directory /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_e.ashutoshkaushal.20230711.154450.188989...
(base) ashutoshkaushal@Ashutoshs-MacBook-Air Big_data_assigment %
```

Output

","255" , 0.12809187787634663  
,"256" , 0.111430939819211  
,"257" , 0.12170326130278304  
,"258" , 0.0563708867486162615  
,"259" , 0.118795756191650356  
,"260" , 0.05759045651968724  
,"261" , 0.0699326836136395  
,"262" , 0.11296499408848457  
,"263" , 0.11296499408848458  
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,"265" , 0.1172930432946785  
,"27" , 0.18792295679333682  
,"28" , 0.10964349133853483  
,"29" , 0.02500351831871776  
,"30" , 0.0535432518865877  
,"31" , 0.0473006539958877884  
,"32" , 0.08669395691025931  
,"33" , 0.12184566970288921  
,"34" , 0.09333329817394006  
,"35" , 0.098105206253903824  
,"36" , 0.1091057449071710  
,"37" , 0.49645047214994529  
,"38" , 0.04228842152836762  
,"39" , 0.08860054296948135  
,"40" , 0.10872346218865867  
,"41" , 0.10920053133449682  
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,"43" , 0.10711210927278268  
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,"179" , 0.08379121428828648  
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,"185" , 0.11113120280782111  
,"186" , 0.045075438103270554  
,"188" , 0.07878573483278146  
,"189" , 0.112765151501453672  
,"19" , 0.064060000000000000000  
,"190" , 0.11276515150145314  
,"191" , 0.068923476528028277  
,"192" , 0.0889202498302863  
,"193" , 0.05509939675732483  
,"133" , 0.09614396334718267  
,"134" , 0.09614396334718268  
,"135" , 0.1058316048175303  
,"136" , 0.03882159993903665  
,"137" , 0.11368925880923128  
,"138" , 0.1344299121385127  
,"139" , 0.09123536848974266  
,"140" , 0.090000000000000000000  
,"140" , 0.111398900000000000000  
,"141" , 0.1125201842391888  
,"142" , 0.11471666264716527  
,"143" , 0.114666191579935  
,"144" , 0.11599726398403658  
,"145" , 0.08863749691784453  
,"146" , 0.08863749691784453  
,"147" , 0.029752826896399642  
,"148" , 0.11637856718486142  
,"149" , 0.11421546676100858  
,"15" , 0.118164082775306885  
,"150" , 0.11139892289735678

"181" 0.116062227551880136719  
"182" 0.034482218801893494  
"183" 0.045313451887893494  
"184" 0.11113129280782111  
"185" 0.053815158923848456  
"186" 0.11113129280782111  
"187" 0.0458754381032781554  
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"191" 0.1018263801893491814  
"192" 0.06892347652828277  
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"194" 0.05589039675732483  
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"196" 0.128894580783485763  
"197" 0.038822159693903665  
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"140" 0.06845768431098353  
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"146" 0.11113129280782111  
"147" 0.02975282696399642  
"148" 0.11637856718486142  
"149" 0.11421546677610058  
"15" 0.11816402775368685  
"15" 0.11198028289755678  
"15" 0.11198028289755678  
"15" 0.0818930482137485  
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"154" 0.105588335986745395  
"155" 0.05492437594563962  
"156" 0.05227272727272727  
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"158" 0.1286564573548965  
"159" 0.04679184275736473  
"16" 0.11506861464050653  
"160" 0.09990508357849257  
"161" 0.1193953863942146  
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"163" 0.11113129280782111  
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"165" 0.115553189764073  
"166" 0.11454469562418111  
"167" 0.15953444195479805  
"168" 0.04233415110880832  
"169" 0.0928767106606233  
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## F Input

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(base) ashutoshkaushal@Ashutoshs-MacBook-Air Big_data_assignment % python mrtask_f.py /Users/ashutoshkaushal/Downloads/yellow_tripdata_2017-02.csv > out.txt
No configs found; falling back on auto-configuration
No configs specified for inline runner
Creating temp directory /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_f.ashutoshkaushal.20230711.155442.645016
Running step 1 of 1...
job output is in /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_f.ashutoshkaushal.20230711.155442.645016/output
Streaming final output from /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_f.ashutoshkaushal.20230711.155442.645016/output...
Removing temp directory /var/folders/2n/yg33rlwd291f09gzxqv4t9kh0000gn/T/mrtask_f.ashutoshkaushal.20230711.155442.645016...
(base) ashutoshkaushal@Ashutoshs-MacBook-Air Big_data_assignment %
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