Assignment Prefix: lab13

Points: 100

Due Date: Tuesday, May 2, 2017 @ 11:59pm

For this assignment you may use any classes from the online version of the code for the textbook. The textbook code is in a jar (Java archive) file which uses the zip file format. One easy way to deal with a jar file is to rename the file with a .zip extension, use Windows Explorer to browse the zip archive, and copy and paste the necessary class files into your NetBeans project directory.

Note: I still believe that there is a learning benefit from transcribing the code from the textbook but you may copy and paste the code from the online jar file.

Note:

* The task is to sort a file of one billion numeric values.
* You may need to reduce the number of values in order to get a “reasonable” sort time.

**Task 1:**

* Create a new NetBeans project named Lab11
* Write a method that:
* creates a data file named “data.txt” on your drive, and
  + writes one billion (1,000,000,000) numeric values of type double to the file,
  + writing one value per line.
  + These values should be in the range 0 <= x < 1.
  + **Output size of the data set (N) and the time it takes to create this data file.**
* Notes:
  + on my office computer this process takes between 5 and 6 minutes without doing anything “special.”
  + The file size is about 18GB.

**Task 2:**

* Write a method that sorts the data you wrote to the “data.txt” file in ascending numeric order and save this sorted data to a file named “sortedData.txt”.
* The data set should be too large to fit into RAM so your sorting algorithm will need to perform an external merge sort.
* **Have your program output:**
  + **The size of the data set (N)**
  + **Runtime for writing data set of size for N = 1,000,000,000 values time = 785,676 miliseconds**
  + **The time it takes to generate the random unsorted file**
  + **The size of each block**
  + **The time it takes sort each block**
  + **The total time it takes to sort the entire file.**
* Hints:
  + you may use any of the classes that you created or imported from the textbook code
  + you will want to use an efficient sort to sort each block
  + you will want to make the blocks as large as possible, ideally your program should dynamically determine the best block size



* + you may want to review Java Illuminated sections 11.3 and 11.4 (pdf available in Course Content area)
  + you will want to read section 15.4 in the textbook.

**Task 3:**

* **Output the first 20 lines of the unsorted data from the “data.txt” file**
* **Output the first 20 lines of the sorted date from the “sortedData.txt" file**

**Turning in your assignment:**

* **Make sure that all of your code is properly documented.**
* Turn in your assignment using the standard method.
* Create a Word document and copy and paste the following into the document:
  + A screenshot of your output
  + Your client class
  + Any other .java files written or modified for this assignment.
* Export your NetBeans project to a zip archive.
* Turn in the Word document, and zipped project file as separate files in a single Blackboard submission.

run:

max memory 937951232

Total memmory(bytes) currently in used:64487424

Free memory(bytes): 63480640

4.2320426E7

number of block/file: 189 files, block/file size: 4.2320426E7 byteselementPerBlock = 5291005

File already exists

the 1st 20 values in the file

0:0.43752599245023893

1:0.7666680683326128

2:0.23881966818685074

3:0.43645519900812735

4:0.10773699861520591

5:0.25652399971835194

6:0.48680676305728277

7:0.8334840486189213

8:0.7405272223498757

9:0.44754702836748195

10:0.6828254536800658

11:0.760853531643981

12:0.3439893331035767

13:0.689301057913591

14:0.18709538255930147

15:0.6496070778656041

16:0.545193060655069

17:0.0908401492105404

18:0.8835326856668411

19:0.23630179407094742

printing newly created temp array

0.43752599245023893

0.7666680683326128

0.23881966818685074

0.43645519900812735

0.10773699861520591

0.25652399971835194

0.48680676305728277

0.8334840486189213

0.7405272223498757

0.44754702836748195

starting to create file 0

sorting file/block

Runtime to sort block: temp0.txt of SIZE = 5,291,005 double numbers using quickSort time = 994 milliseconds

File has been created

writing sorted array to filetemp0.txt

printing newly created temp array

0.6849486288957506

0.6539256642213535

0.2801502709647149

0.13104221805117333

0.5595714621965618

0.12958101439728098

0.9444917583318083

0.4262893727391578

0.2322102533078496

0.1936051159602339

starting to create file 1

sorting file/block

Runtime to sort block: temp1.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,058 milliseconds

File has been created

writing sorted array to filetemp1.txt

printing newly created temp array

0.5972459252437278

0.16139232286970673

0.787964717703661

0.0789703798058975

0.4660714612718714

0.8241558966090609

0.4277329478488241

0.6875376505073462

0.8377092514453307

0.6103116279972961

starting to create file 2

sorting file/block

Runtime to sort block: temp2.txt of SIZE = 5,291,005 double numbers using quickSort time = 988 milliseconds

File has been created

writing sorted array to filetemp2.txt

printing newly created temp array

0.99128517023472

0.7992335090186954

0.7553282186150144

0.3919433211219432

0.6424288413001136

0.9082630625608661

0.6754160126949685

0.612832324473151

0.9922743895263992

0.8603130303007359

starting to create file 3

sorting file/block

Runtime to sort block: temp3.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,055 milliseconds

File has been created

writing sorted array to filetemp3.txt

printing newly created temp array

0.9035040805052512

0.17643217573645453

0.20689627564548552

0.6630023871646438

0.735464310648846

0.006607402630697479

0.8766997492927118

0.0057169110559671665

0.1039706398654281

0.11246911851171992

starting to create file 4

sorting file/block

Runtime to sort block: temp4.txt of SIZE = 5,291,005 double numbers using quickSort time = 971 milliseconds

File has been created

writing sorted array to filetemp4.txt

printing newly created temp array

0.4205475533375236

0.06709722895963766

0.5390114842515747

0.5940650172427414

0.05295594424508887

0.9406548450901974

0.44465328754792444

0.519937217269047

0.6980939022246374

0.3889175092027277

starting to create file 5

sorting file/block

Runtime to sort block: temp5.txt of SIZE = 5,291,005 double numbers using quickSort time = 954 milliseconds

File has been created

writing sorted array to filetemp5.txt

printing newly created temp array

0.3597827007243728

0.19094942339549537

0.6925341528334908

0.3907349663674017

0.6522185779550842

0.920725281153654

0.7136232729236063

0.08238502365651268

0.04199889265099388

0.7166089608199191

starting to create file 6

sorting file/block

Runtime to sort block: temp6.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,018 milliseconds

File has been created

writing sorted array to filetemp6.txt

printing newly created temp array

0.7104896732134428

0.5106682229353481

0.6820130205651294

0.29825632500145294

0.36538508364579836

0.5989929543667055

0.4861081681003089

0.7324640693964913

0.6833287700299595

0.7792687302314951

starting to create file 7

sorting file/block

Runtime to sort block: temp7.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,015 milliseconds

File has been created

writing sorted array to filetemp7.txt

printing newly created temp array

0.33728286352811787

0.18548806336400214

0.04026938497989596

0.6439222656242652

0.8426839274094667

0.0032617443484813657

0.340166717197683

0.07380761164640992

0.4554508887931179

0.20422575949671928

starting to create file 8

sorting file/block

Runtime to sort block: temp8.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,059 milliseconds

File has been created

writing sorted array to filetemp8.txt

printing newly created temp array

0.8165586916569054

0.06696091727585618

0.7064750341639235

0.3716699667934513

0.08383477306746312

0.3173731427907206

0.14218545964846152

0.3232518642294927

0.09122724403209082

0.5572912221617325

starting to create file 9

sorting file/block

Runtime to sort block: temp9.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,016 milliseconds

File has been created

writing sorted array to filetemp9.txt

printing newly created temp array

0.7166096507426688

0.27636168303123965

0.8390883424122894

0.5267395629379423

0.9167678244832248

0.8487507106195374

0.8599128767954549

0.38292192389156443

0.4427619400321674

0.19502535100781637

starting to create file 10

sorting file/block

Runtime to sort block: temp10.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,112 milliseconds

File has been created

writing sorted array to filetemp10.txt

printing newly created temp array

0.49501325574244803

0.4321132233105158

0.024758641194449926

0.537703959039419

0.18035173848974084

0.5260636851900324

0.3457201744910916

0.5929233320350115

0.08505280744343946

0.8034764433886573

starting to create file 11

sorting file/block

Runtime to sort block: temp11.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,045 milliseconds

File has been created

writing sorted array to filetemp11.txt

printing newly created temp array

0.48876324826606143

0.5191661203929261

0.8543650522667613

0.2633469254474887

0.8404417080030043

0.7884240374328004

0.09906250882961909

0.7635331904304032

0.13314812003455745

0.13043415964028682

starting to create file 12

sorting file/block

Runtime to sort block: temp12.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,067 milliseconds

File has been created

writing sorted array to filetemp12.txt

printing newly created temp array

0.1812533176302381

0.6443859474837268

0.20106999925014413

0.2869827455047961

0.021584822880122756

0.2592045186039983

0.39448674108652504

0.0021369679351064264

0.14952712440104943

0.7068376531110113

starting to create file 13

sorting file/block

Runtime to sort block: temp13.txt of SIZE = 5,291,005 double numbers using quickSort time = 959 milliseconds

File has been created

writing sorted array to filetemp13.txt

printing newly created temp array

0.5851145358158477

0.6742315992961946

0.4479297029177959

0.15470268033529466

0.6774852450268224

0.20676140983141822

0.8899053180033548

0.9326499394556937

0.5817125915028983

0.9875537972171882

starting to create file 14

sorting file/block

Runtime to sort block: temp14.txt of SIZE = 5,291,005 double numbers using quickSort time = 987 milliseconds

File has been created

writing sorted array to filetemp14.txt

printing newly created temp array

0.29287461868599984

0.027113260367996328

0.701818746538125

0.2296028734101524

0.9843271626083326

0.06479725668687741

0.5489959519038341

0.13457605424335406

0.024803868559551745

0.28337077533656485

starting to create file 15

sorting file/block

Runtime to sort block: temp15.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,002 milliseconds

File has been created

writing sorted array to filetemp15.txt

printing newly created temp array

0.29181651102753825

0.7131205597037409

0.8539116830556426

0.8940613674004084

0.6944775493394725

0.13034240816478082

0.00783574609176052

0.5986160556422198

0.23185697874719247

0.08044170116570137

starting to create file 16

sorting file/block

Runtime to sort block: temp16.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,018 milliseconds

File has been created

writing sorted array to filetemp16.txt

printing newly created temp array

0.24100211284720607

0.6638556145087444

0.6835873800322243

0.14839185751002515

0.4902046519023755

0.9085315469753069

0.9229365381177838

0.026480640549790158

0.6963141856206033

0.9603405075569061

starting to create file 17

sorting file/block

Runtime to sort block: temp17.txt of SIZE = 5,291,005 double numbers using quickSort time = 970 milliseconds

File has been created

writing sorted array to filetemp17.txt

printing newly created temp array

0.5073212792418308

0.9194240589017124

0.7286681090865433

0.5383826285583457

0.4368334418589179

0.3703002609077364

0.9259593924164082

0.5864900473641178

0.5095908913368339

0.08799623168218429

starting to create file 18

sorting file/block

Runtime to sort block: temp18.txt of SIZE = 5,291,005 double numbers using quickSort time = 987 milliseconds

File has been created

writing sorted array to filetemp18.txt

printing newly created temp array

0.4171490120342406

0.11763644152365771

0.48391055648840764

0.009896477678042914

0.10768538139835426

0.9565549124665456

0.9771594851953874

0.9060672482030528

0.4542049446841909

0.09473396699819958

starting to create file 19

sorting file/block

Runtime to sort block: temp19.txt of SIZE = 5,291,005 double numbers using quickSort time = 983 milliseconds

File has been created

writing sorted array to filetemp19.txt

printing newly created temp array

0.47565269548121836

0.09774218646271682

0.9802852515841678

0.26031921147529635

0.5170634678972368

0.9597489059163642

0.6420524823239442

0.503767393132782

0.9016432260745144

0.6330162690504746

starting to create file 20

sorting file/block

Runtime to sort block: temp20.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,034 milliseconds

File has been created

writing sorted array to filetemp20.txt

printing newly created temp array

0.9285733452657304

0.8655634349289641

0.33033343048694797

0.15754780686236636

0.3739674448183612

0.8032208862607778

0.59929498450861

0.1133119814215312

0.8399135047967246

0.6786916252225187

starting to create file 21

sorting file/block

Runtime to sort block: temp21.txt of SIZE = 5,291,005 double numbers using quickSort time = 957 milliseconds

File has been created

writing sorted array to filetemp21.txt

printing newly created temp array

0.5167767216393777

0.7661122376058057

0.9547536190159269

0.8549283595585678

0.7096047181394677

0.32157386159178214

0.3941192634252336

0.7376759234601876

0.6439571709482012

0.2519474010117647

starting to create file 22

sorting file/block

Runtime to sort block: temp22.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,023 milliseconds

File has been created

writing sorted array to filetemp22.txt

printing newly created temp array

0.5908722440115888

0.7401611391362826

0.15356769345558363

0.8938914264940488

0.19443080917557598

0.3752132933019072

0.9443185843507297

0.9174911667528791

0.8351911387942531

0.6399569357462761

starting to create file 23

sorting file/block

Runtime to sort block: temp23.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,024 milliseconds

File has been created

writing sorted array to filetemp23.txt

printing newly created temp array

0.8633811601643815

0.14915297996109567

0.49966299636058187

0.554768137852501

0.3603464828676427

0.31607772615747165

0.15698228504498302

0.6241511243448131

0.4062632499587673

0.1318026308472383

starting to create file 24

sorting file/block

Runtime to sort block: temp24.txt of SIZE = 5,291,005 double numbers using quickSort time = 990 milliseconds

File has been created

writing sorted array to filetemp24.txt

printing newly created temp array

0.6259950980743328

0.28082088687617324

0.582752180864982

0.8404920576893457

0.9630932879366761

0.2809388838107535

0.6346496951421894

0.9573998164115223

0.7067379527870854

0.3153266002313341

starting to create file 25

sorting file/block

Runtime to sort block: temp25.txt of SIZE = 5,291,005 double numbers using quickSort time = 993 milliseconds

File has been created

writing sorted array to filetemp25.txt

printing newly created temp array

0.5758235653930026

0.20733448558259326

0.7704587265808308

0.9902320324972219

0.8248035873899118

0.35390895349800444

0.5878116261259536

0.2581039257965825

0.9896700254119677

0.2577630665504703

starting to create file 26

sorting file/block

Runtime to sort block: temp26.txt of SIZE = 5,291,005 double numbers using quickSort time = 977 milliseconds

File has been created

writing sorted array to filetemp26.txt

printing newly created temp array

0.14623068658555594

0.1749780271044098

0.28223461146072637

0.42031757901370004

0.8094018674477255

0.3120276698292508

0.5453075924199124

0.828748478128679

0.7992999396065211

0.04430468832037915

starting to create file 27

sorting file/block

Runtime to sort block: temp27.txt of SIZE = 5,291,005 double numbers using quickSort time = 944 milliseconds

File has been created

writing sorted array to filetemp27.txt

printing newly created temp array

0.8597463745815597

0.9931901738457555

0.3078948240297654

0.6080988828196714

0.5188439734296751

0.1848622874671918

0.13844528484956342

0.5202337061463637

0.5859081738158967

0.5856553916085641

starting to create file 28

sorting file/block

Runtime to sort block: temp28.txt of SIZE = 5,291,005 double numbers using quickSort time = 948 milliseconds

File has been created

writing sorted array to filetemp28.txt

printing newly created temp array

0.08491253859446946

0.17164776373981394

0.8429294818253914

0.7538987409582935

0.775848503160999

0.5611225941111642

0.7195240354702133

0.8069412417361904

0.33898802343880896

0.9738590088899801

starting to create file 29

sorting file/block

Runtime to sort block: temp29.txt of SIZE = 5,291,005 double numbers using quickSort time = 944 milliseconds

File has been created

writing sorted array to filetemp29.txt

printing newly created temp array

0.06034035407159566

0.994724102507018

0.4578798792244395

0.7852139298676333

0.46264914333433793

0.8705279190547834

0.5925933545548854

0.6385475929389303

0.9979568117701239

0.017127189734716497

starting to create file 30

sorting file/block

Runtime to sort block: temp30.txt of SIZE = 5,291,005 double numbers using quickSort time = 938 milliseconds

File has been created

writing sorted array to filetemp30.txt

printing newly created temp array

0.033097692694511904

0.8831123294748826

0.8158068240873492

0.3037926310081346

0.9440844777649291

0.7564516443453257

0.22790005316840745

0.08396069664526129

0.04971845445075784

0.29917002774013024

starting to create file 31

sorting file/block

Runtime to sort block: temp31.txt of SIZE = 5,291,005 double numbers using quickSort time = 953 milliseconds

File has been created

writing sorted array to filetemp31.txt

printing newly created temp array

0.4005312534133849

0.2521072879165599

0.576634480854538

0.5164782459450284

0.8254967088043635

0.1670157199774831

0.4230014602116948

0.6596819225922618

0.9518418764492763

0.5667794875711857

starting to create file 32

sorting file/block

Runtime to sort block: temp32.txt of SIZE = 5,291,005 double numbers using quickSort time = 944 milliseconds

File has been created

writing sorted array to filetemp32.txt

printing newly created temp array

0.9944414390151887

0.5477979035065933

0.03468750237584817

0.98892121483377

0.9967994902216638

0.8791481314789982

0.2702062417944998

0.1187457781941651

0.44767258252422126

0.3959941981724784

starting to create file 33

sorting file/block

Runtime to sort block: temp33.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,024 milliseconds

File has been created

writing sorted array to filetemp33.txt

printing newly created temp array

0.8051628512780796

0.37401822872463997

0.25578538259054073

0.4530412305728265

0.7299504207439166

0.9473523057109664

0.3444413776015125

0.018464311532764177

0.18861913823783805

0.44027773172688844

starting to create file 34

sorting file/block

Runtime to sort block: temp34.txt of SIZE = 5,291,005 double numbers using quickSort time = 963 milliseconds

File has been created

writing sorted array to filetemp34.txt

printing newly created temp array

0.4296712814259659

0.04327996534075773

0.7501419003044364

0.8589055866851076

0.8866426054664545

0.514740990786556

0.05939266199191229

0.5451951750456583

0.9257956766205049

0.8748065808609311

starting to create file 35

sorting file/block

Runtime to sort block: temp35.txt of SIZE = 5,291,005 double numbers using quickSort time = 993 milliseconds

File has been created

writing sorted array to filetemp35.txt

printing newly created temp array

0.1878763671780288

0.8582907096661516

0.4951559545827863

0.2695206480865787

0.3836934551587112

0.01151958152496868

0.9006962469805565

0.4219146640152923

0.004760752474671115

0.3266793149079763

starting to create file 36

sorting file/block

Runtime to sort block: temp36.txt of SIZE = 5,291,005 double numbers using quickSort time = 984 milliseconds

File has been created

writing sorted array to filetemp36.txt

printing newly created temp array

0.9448393143600983

0.5381063877612653

0.9314225479166968

0.04689224537768255

0.9055194481012291

0.177121697147828

0.07405526933965256

0.4853281569541651

0.8024753191225711

0.14293712229789457

starting to create file 37

sorting file/block

Runtime to sort block: temp37.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,035 milliseconds

File has been created

writing sorted array to filetemp37.txt

printing newly created temp array

0.5407837588803797

0.5771481132822638

0.9676449740609844

0.6656019569297323

0.8007407183755125

0.31098713567090774

0.14583381484611757

0.22969214781254588

0.7897985165073795

0.09864624020848023

starting to create file 38

sorting file/block

Runtime to sort block: temp38.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,027 milliseconds

File has been created

writing sorted array to filetemp38.txt

printing newly created temp array

0.41691365349168696

0.12054852174080888

0.300135895829892

0.7765161256542549

0.7469674706242944

0.653676613205577

0.9358820517601185

0.4023865066740824

0.03117348051419433

0.8767909042502737

starting to create file 39

sorting file/block

Runtime to sort block: temp39.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,010 milliseconds

File has been created

writing sorted array to filetemp39.txt

printing newly created temp array

0.368772861006588

0.9251097717515516

0.27341270118870964

0.5904990968815247

0.9169377595205456

0.16511556976270114

0.6309593454637962

0.6561112149931879

0.5142099514277231

0.12823819049850516

starting to create file 40

sorting file/block

Runtime to sort block: temp40.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,109 milliseconds

File has been created

writing sorted array to filetemp40.txt

printing newly created temp array

0.34488637330012106

0.39792703539789875

0.6645357240104484

0.9941352331968045

0.13586615653669654

0.26685076719826484

0.2954831332509551

0.7655810038921635

0.16206164907314335

0.05089070914096405

starting to create file 41

sorting file/block

Runtime to sort block: temp41.txt of SIZE = 5,291,005 double numbers using quickSort time = 971 milliseconds

File has been created

writing sorted array to filetemp41.txt

printing newly created temp array

0.15056028494467666

0.9681579499182176

0.02293425686689954

0.617126034168412

0.6539396308226891

0.895735433647331

0.2968794216724687

0.44415560135540477

0.060859630077072735

0.39661186390969827

starting to create file 42

sorting file/block

Runtime to sort block: temp42.txt of SIZE = 5,291,005 double numbers using quickSort time = 953 milliseconds

File has been created

writing sorted array to filetemp42.txt

printing newly created temp array

0.3786880739068593

0.4188821599077368

0.11928069509953199

0.4314992822253194

0.2839928817780172

0.4834997361825988

0.7921260206070521

0.6412233040829246

0.8393849835690548

0.1534702669748833

starting to create file 43

sorting file/block

Runtime to sort block: temp43.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,046 milliseconds

File has been created

writing sorted array to filetemp43.txt

printing newly created temp array

0.9282434584111285

0.2620891753749056

0.26428019243233103

0.4006911972059062

0.4383362209423709

0.6459155078566365

0.2008867048058277

0.1899231305315341

0.4231495479928786

0.6018199268244266

starting to create file 44

sorting file/block

Runtime to sort block: temp44.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,013 milliseconds

File has been created

writing sorted array to filetemp44.txt

printing newly created temp array

0.6916880470938954

0.7205618015971385

0.8702500217214917

0.9174011423131833

0.1030198128620392

0.07293648489516436

0.0045098680205644115

0.8712065054732051

0.8017415381143111

0.6398749261730404

starting to create file 45

sorting file/block

Runtime to sort block: temp45.txt of SIZE = 5,291,005 double numbers using quickSort time = 991 milliseconds

File has been created

writing sorted array to filetemp45.txt

printing newly created temp array

0.057542486306501384

0.6278950715894146

0.8638145619337

0.21366565611654542

0.22594467923138706

0.1874369768851828

0.6130105326475572

0.512768348745968

0.6563323329476177

0.16426517159523935

starting to create file 46

sorting file/block

Runtime to sort block: temp46.txt of SIZE = 5,291,005 double numbers using quickSort time = 942 milliseconds

File has been created

writing sorted array to filetemp46.txt

printing newly created temp array

0.520934540915188

0.8715070060184887

0.3111877178914001

0.7810482539414842

0.5702193303011148

0.7021603227400116

0.7107016300515178

0.1369017038589816

0.23471485666098146

0.8759114743793354

starting to create file 47

sorting file/block

Runtime to sort block: temp47.txt of SIZE = 5,291,005 double numbers using quickSort time = 929 milliseconds

File has been created

writing sorted array to filetemp47.txt

printing newly created temp array

0.9642347990509129

0.6499131021597673

0.03655584706725967

0.05120120468858658

0.2438448112434941

0.7324153968180157

0.1350179166926898

0.5738322302694044

0.7497711434585648

0.7741045880200766

starting to create file 48

sorting file/block

Runtime to sort block: temp48.txt of SIZE = 5,291,005 double numbers using quickSort time = 950 milliseconds

File has been created

writing sorted array to filetemp48.txt

printing newly created temp array

0.4636818681711391

0.48796647300889284

0.507803848283997

0.5969540338109615

0.4637896372033721

0.5375604671700919

0.12123209970082738

0.9628435104737256

0.8799736466042415

0.03497883384428757

starting to create file 49

sorting file/block

Runtime to sort block: temp49.txt of SIZE = 5,291,005 double numbers using quickSort time = 994 milliseconds

File has been created

writing sorted array to filetemp49.txt

printing newly created temp array

0.21116730459724353

0.581359191839092

0.01854707650932308

0.409217337429013

0.3634365257630666

0.13712075104736432

0.4962617910490136

0.6110428636310595

0.3624856443036426

0.3145233025815821

starting to create file 50

sorting file/block

Runtime to sort block: temp50.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,030 milliseconds

File has been created

writing sorted array to filetemp50.txt

printing newly created temp array

0.16592019983510564

0.40604203901364355

0.1903841151468525

0.07378074617841013

0.447334857802999

0.812236854729812

0.7012425351810293

0.509030368587954

0.5213107350104157

0.007372912703355938

starting to create file 51

sorting file/block

Runtime to sort block: temp51.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,003 milliseconds

File has been created

writing sorted array to filetemp51.txt

printing newly created temp array

0.6880007901670168

0.5503397381848749

0.4851720331393017

0.7282944348573085

0.31621792634654433

0.17521920825297177

0.3268545257969063

0.7650429876074849

0.34792368529399353

0.2904410384061056

starting to create file 52

sorting file/block

Runtime to sort block: temp52.txt of SIZE = 5,291,005 double numbers using quickSort time = 980 milliseconds

File has been created

writing sorted array to filetemp52.txt

printing newly created temp array

0.810951245364959

0.9446499147484962

0.48845558092471764

0.9910855358556219

0.03526883023077687

0.023422558332537702

0.9322414354490258

0.8928350577595932

0.1010169427164439

0.12029093638016841

starting to create file 53

sorting file/block

Runtime to sort block: temp53.txt of SIZE = 5,291,005 double numbers using quickSort time = 947 milliseconds

File has been created

writing sorted array to filetemp53.txt

printing newly created temp array

0.5864467530241424

0.8217941866097304

0.49350771209293265

0.6125884787653327

0.31031536641477997

0.5339058499765241

0.9039156182596906

0.36648549526518803

0.7929899705154632

0.47063229197693746

starting to create file 54

sorting file/block

Runtime to sort block: temp54.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,004 milliseconds

File has been created

writing sorted array to filetemp54.txt

printing newly created temp array

0.2715465931627179

0.08559711895185573

0.9967572715984839

0.03227671033531021

0.6770157245098595

0.1923946150380449

0.8238582056639222

0.22160395099262287

0.5399806426970658

0.7560808688401307

starting to create file 55

sorting file/block

Runtime to sort block: temp55.txt of SIZE = 5,291,005 double numbers using quickSort time = 973 milliseconds

File has been created

writing sorted array to filetemp55.txt

printing newly created temp array

0.45176634770282986

0.5169265561407124

0.601211474866766

0.23222599631788177

0.09086250830366716

0.8858488721640772

0.9047474683912569

0.40499215916267806

0.6580149997165687

0.2548190279525242

starting to create file 56

sorting file/block

Runtime to sort block: temp56.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,029 milliseconds

File has been created

writing sorted array to filetemp56.txt

printing newly created temp array

0.15151949252348784

0.908566954558414

0.8924291833099732

0.5838467134070262

0.18773754025336897

0.5874183541359654

0.12897467978280586

0.5958382790596645

0.378105922095198

0.08813638042255512

starting to create file 57

sorting file/block

Runtime to sort block: temp57.txt of SIZE = 5,291,005 double numbers using quickSort time = 947 milliseconds

File has been created

writing sorted array to filetemp57.txt

printing newly created temp array

0.8319113355892224

0.7670508646430929

0.1674265815588326

0.023681574402620975

0.09256837520669348

0.3642813021117465

0.016302361084852723

0.23367709074179777

0.16625688050132115

0.2640387849140806

starting to create file 58

sorting file/block

Runtime to sort block: temp58.txt of SIZE = 5,291,005 double numbers using quickSort time = 984 milliseconds

File has been created

writing sorted array to filetemp58.txt

printing newly created temp array

0.9508904049087172

0.8725493234179644

0.046344785966078605

0.8953087472933289

0.17243569557006677

0.2570061738629411

0.2654084762764126

0.041845098146188975

0.16980673102307398

0.5630981191704184

starting to create file 59

sorting file/block

Runtime to sort block: temp59.txt of SIZE = 5,291,005 double numbers using quickSort time = 952 milliseconds

File has been created

writing sorted array to filetemp59.txt

printing newly created temp array

0.3447168169085897

0.19453582653600088

0.341697308362402

0.6547405320207619

0.18030758224183996

0.3353365986596011

0.6684146388605322

0.8260045422753839

0.6320131679149605

0.0461338025977962

starting to create file 60

sorting file/block

Runtime to sort block: temp60.txt of SIZE = 5,291,005 double numbers using quickSort time = 959 milliseconds

File has been created

writing sorted array to filetemp60.txt

printing newly created temp array

0.7481172995325742

0.04393765019653073

0.7198765035409854

0.8870434134606516

0.349783485673397

0.3150287367333331

0.6431726472822268

0.7739872705587602

0.4798456436071473

0.2698814163739611

starting to create file 61

sorting file/block

Runtime to sort block: temp61.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,001 milliseconds

File has been created

writing sorted array to filetemp61.txt

printing newly created temp array

0.7074520718722052

0.796444619488099

0.7044849196980807

0.7236894264044499

0.07600116559022885

0.8538396937009513

0.6448015020254693

0.5050090416193604

0.10442814971881342

0.32780778657742105

starting to create file 62

sorting file/block

Runtime to sort block: temp62.txt of SIZE = 5,291,005 double numbers using quickSort time = 962 milliseconds

File has been created

writing sorted array to filetemp62.txt

printing newly created temp array

0.6236002634955994

0.2884646947044458

0.11073597019256265

0.7109088882676726

0.7087075961609604

0.9705664327267971

0.9431263999094921

0.8828481069002676

0.6606504355587388

0.4163309750655787

starting to create file 63

sorting file/block

Runtime to sort block: temp63.txt of SIZE = 5,291,005 double numbers using quickSort time = 961 milliseconds

File has been created

writing sorted array to filetemp63.txt

printing newly created temp array

0.9188673330751023

0.44891082254186787

0.13776192282475164

0.3368656037218698

0.08075697777395319

0.20486704653212218

0.2372322478089507

0.9353186269302999

0.8491799021475045

0.4352367898088687

starting to create file 64

sorting file/block

Runtime to sort block: temp64.txt of SIZE = 5,291,005 double numbers using quickSort time = 944 milliseconds

File has been created

writing sorted array to filetemp64.txt

printing newly created temp array

0.3369873883919371

0.8133087440301121

0.8221269142378308

0.40804905961482285

0.9169310661908591

0.004025940854772814

0.4110697709863168

0.6500767140325677

0.952094150030059

0.1394494976730155

starting to create file 65

sorting file/block

Runtime to sort block: temp65.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,010 milliseconds

File has been created

writing sorted array to filetemp65.txt

printing newly created temp array

0.23933818752888025

0.060277001595809954

0.11715855094617278

0.340765089361559

0.16414874150507663

0.5877358416704314

0.4415979174812815

0.9983649438585709

0.4926190066254158

0.867208881965483

starting to create file 66

sorting file/block

Runtime to sort block: temp66.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,059 milliseconds

File has been created

writing sorted array to filetemp66.txt

printing newly created temp array

0.8184672082262913

0.45164186528233874

0.15817285559552685

0.5575483624448511

0.05442657248236493

0.5977921309273748

0.2071534660730373

0.24733940120727527

0.942820196698798

0.3022287514067328

starting to create file 67

sorting file/block

Runtime to sort block: temp67.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,018 milliseconds

File has been created

writing sorted array to filetemp67.txt

printing newly created temp array

0.4081241045195708

0.8521833781129315

0.9596825780255471

0.8763158589874761

0.09220120692817801

0.17155568372904317

0.3375766072316245

0.6686511880205988

0.45342600151035317

0.3243360461451932

starting to create file 68

sorting file/block

Runtime to sort block: temp68.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,011 milliseconds

File has been created

writing sorted array to filetemp68.txt

printing newly created temp array

0.9086105225410248

0.29980574437779295

0.890940472308553

0.1967467104488001

0.5396390524284609

0.8659837657797429

0.5856326106841436

0.7702421562470622

0.9484185404701987

0.6668252176106043

starting to create file 69

sorting file/block

Runtime to sort block: temp69.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,057 milliseconds

File has been created

writing sorted array to filetemp69.txt

printing newly created temp array

0.08706972244447309

0.8293862126062507

0.5052061260611341

0.14105059096608352

0.5773148358381418

0.3375863919995531

0.7745046072130218

0.1476086424685964

0.816902894431904

0.07678856392752165

starting to create file 70

sorting file/block

Runtime to sort block: temp70.txt of SIZE = 5,291,005 double numbers using quickSort time = 988 milliseconds

File has been created

writing sorted array to filetemp70.txt

printing newly created temp array

0.5654314189196119

0.9630109822144244

0.9615074276162623

0.9380897933343701

0.5416793119582086

0.9658033470144591

0.24187101781724452

0.9635039935858828

0.2916173923345887

0.4084876290671112

starting to create file 71

sorting file/block

Runtime to sort block: temp71.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,041 milliseconds

File has been created

writing sorted array to filetemp71.txt

printing newly created temp array

0.3868568469153748

0.4659935707226597

0.5184040435721206

0.872771619694562

0.6728222582498141

0.08452154778777954

0.22387598957038357

0.7806655890922106

0.9386860735090138

0.4586304152308527

starting to create file 72

sorting file/block

Runtime to sort block: temp72.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,015 milliseconds

File has been created

writing sorted array to filetemp72.txt

printing newly created temp array

0.7998071414126997

0.8454068674957076

0.14617563600816896

0.6679199051014986

0.48234803882149657

0.5752123238689347

0.635109644628983

0.826870583342057

0.9742829733616095

0.7662056373747316

starting to create file 73

sorting file/block

Runtime to sort block: temp73.txt of SIZE = 5,291,005 double numbers using quickSort time = 962 milliseconds

File has been created

writing sorted array to filetemp73.txt

printing newly created temp array

0.4653571358972609

0.25853557881162514

0.6739574134803911

0.45451869667212796

0.9085703300134439

0.9852216606021281

0.713172040577039

0.9375593949468343

0.06065838850840477

0.5921916006205304

starting to create file 74

sorting file/block

Runtime to sort block: temp74.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,057 milliseconds

File has been created

writing sorted array to filetemp74.txt

printing newly created temp array

0.7654840531928475

0.8816291857968961

0.4814935011381367

0.43980388456367725

0.6983291997775016

0.6915426796260036

0.8254823998198337

0.6587086058321022

0.48717225785430174

0.274078084570073

starting to create file 75

sorting file/block

Runtime to sort block: temp75.txt of SIZE = 5,291,005 double numbers using quickSort time = 997 milliseconds

File has been created

writing sorted array to filetemp75.txt

printing newly created temp array

0.1785599053373108

0.6109728648369194

0.1255514553084197

0.5494893767759803

0.21893252883424774

0.18973166709274747

0.07666452825050152

0.34615335374166545

0.9854687235830583

0.5196318506521377

starting to create file 76

sorting file/block

Runtime to sort block: temp76.txt of SIZE = 5,291,005 double numbers using quickSort time = 978 milliseconds

File has been created

writing sorted array to filetemp76.txt

printing newly created temp array

0.3474892106446005

0.48720316135858854

0.6562287617068614

0.759669605179641

0.4923287686538593

0.9371204129861153

0.21635086878090293

0.24298277645312583

0.9534458422779688

0.43209141623018554

starting to create file 77

sorting file/block

Runtime to sort block: temp77.txt of SIZE = 5,291,005 double numbers using quickSort time = 989 milliseconds

File has been created

writing sorted array to filetemp77.txt

printing newly created temp array

0.09440324251480181

0.5751457815711785

0.2930650404584153

0.43590267767627844

0.18867551917334302

0.22764647347246214

0.9372609331975252

0.8722053480750618

0.1812811146293858

0.6151896498422785

starting to create file 78

sorting file/block

Runtime to sort block: temp78.txt of SIZE = 5,291,005 double numbers using quickSort time = 982 milliseconds

File has been created

writing sorted array to filetemp78.txt

printing newly created temp array

0.9083672080981977

0.5827723009216601

0.368460856195702

0.8836260145804009

0.7040824854700664

0.7855953947524404

0.19812024180435794

0.4530858967867063

0.9039262335796583

0.4471737101416615

starting to create file 79

sorting file/block

Runtime to sort block: temp79.txt of SIZE = 5,291,005 double numbers using quickSort time = 981 milliseconds

File has been created

writing sorted array to filetemp79.txt

printing newly created temp array

0.47068734375765564

0.08966214625262292

0.9575691564515527

0.37114844098826405

0.8134473404416064

0.49666551900947287

0.350813307216172

0.48343441736430104

0.509744914782004

0.10045049793571648

starting to create file 80

sorting file/block

Runtime to sort block: temp80.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,028 milliseconds

File has been created

writing sorted array to filetemp80.txt

printing newly created temp array

0.4764073965984631

0.49099130554826464

0.0507969682625643

0.6339426431158659

0.3954030556650231

0.6716416343094027

0.6928009429908366

0.8110866078751293

0.45961445218356956

0.28649244059073664

starting to create file 81

sorting file/block

Runtime to sort block: temp81.txt of SIZE = 5,291,005 double numbers using quickSort time = 976 milliseconds

File has been created

writing sorted array to filetemp81.txt

printing newly created temp array

0.06279516804030882

0.3738210917713394

0.9961408629635188

0.2830585463931117

0.009272579427781369

0.5727620223996683

0.5226640243843467

0.9432273169924307

0.41289699444805117

0.33182082612584485

starting to create file 82

sorting file/block

Runtime to sort block: temp82.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,046 milliseconds

File has been created

writing sorted array to filetemp82.txt

printing newly created temp array

0.02067120530610511

0.6246295981915422

0.3912403006419123

0.5969602914436751

0.10078585189696987

0.7828315507694689

0.9108240529951248

0.6723266714510204

0.7893127075138253

0.35706630528699757

starting to create file 83

sorting file/block

Runtime to sort block: temp83.txt of SIZE = 5,291,005 double numbers using quickSort time = 961 milliseconds

File has been created

writing sorted array to filetemp83.txt

printing newly created temp array

0.5185048486066386

0.13950657981631975

0.9745047671426715

0.29053214050709597

0.8188978930001014

0.8456677854065565

0.4582464998456228

0.480426090279632

0.8245961012538351

0.18538749897135576

starting to create file 84

sorting file/block

Runtime to sort block: temp84.txt of SIZE = 5,291,005 double numbers using quickSort time = 999 milliseconds

File has been created

writing sorted array to filetemp84.txt

printing newly created temp array

0.7465586318675752

0.8801794334325329

0.7419616769777336

0.052014549667409815

0.4451786498722665

0.31224291434021

0.6797642861070332

0.012508470075755174

0.42222549761235595

0.6715561513661683

starting to create file 85

sorting file/block

Runtime to sort block: temp85.txt of SIZE = 5,291,005 double numbers using quickSort time = 949 milliseconds

File has been created

writing sorted array to filetemp85.txt

printing newly created temp array

0.17969700478952744

0.8973150237007399

0.34220584010989763

0.18842547803167842

0.35232843061761576

0.491845995801269

0.48861979876761297

0.375473837935258

0.14559544348076325

0.7562387827640156

starting to create file 86

sorting file/block

Runtime to sort block: temp86.txt of SIZE = 5,291,005 double numbers using quickSort time = 992 milliseconds

File has been created

writing sorted array to filetemp86.txt

printing newly created temp array

0.7708732241120738

0.8638663681425498

0.09927838076261031

0.13672180346426144

0.38760136454409433

0.07079936072032034

0.6810533805534189

0.977659769433552

0.34763376685416814

0.03291041805493

starting to create file 87

sorting file/block

Runtime to sort block: temp87.txt of SIZE = 5,291,005 double numbers using quickSort time = 956 milliseconds

File has been created

writing sorted array to filetemp87.txt

printing newly created temp array

0.02880957747317181

0.23338947815938205

0.5300895579228839

0.3005879137273052

0.3052500507780058

0.7319283761491062

0.8618333339837716

0.7040269746179236

0.33555078035426567

0.9095009022090451

starting to create file 88

sorting file/block

Runtime to sort block: temp88.txt of SIZE = 5,291,005 double numbers using quickSort time = 961 milliseconds

File has been created

writing sorted array to filetemp88.txt

printing newly created temp array

0.5704899519022218

0.7378679194903147

0.6572859283135184

0.2657776643885037

0.2932610063798793

0.007167128744025586

0.04348679248100429

0.7574677969800538

0.11229030963333286

0.11430894026540495

starting to create file 89

sorting file/block

Runtime to sort block: temp89.txt of SIZE = 5,291,005 double numbers using quickSort time = 994 milliseconds

File has been created

writing sorted array to filetemp89.txt

printing newly created temp array

0.36666662380276727

0.9160271081757885

0.8616402860502755

0.48381986254385456

0.6536902019435559

0.4824837393972975

0.696568903245224

0.7668505838005123

0.9178339621906286

0.176815932811891

starting to create file 90

sorting file/block

Runtime to sort block: temp90.txt of SIZE = 5,291,005 double numbers using quickSort time = 974 milliseconds

File has been created

writing sorted array to filetemp90.txt

printing newly created temp array

0.23305694979407054

0.9558274919204712

0.5522005958086338

0.762940548775152

0.8631493796421391

0.3885561395069199

0.4649720619475971

0.19088211947574696

0.13282520262628528

0.010148142966538654

starting to create file 91

sorting file/block

Runtime to sort block: temp91.txt of SIZE = 5,291,005 double numbers using quickSort time = 962 milliseconds

File has been created

writing sorted array to filetemp91.txt

printing newly created temp array

0.30362610421356273

0.7172373769420848

0.7771501006158963

0.5436060355749968

0.19830091895104263

0.47034821518082426

0.6307790793267555

0.4049064693706199

0.4922964927642872

0.5583801005496738

starting to create file 92

sorting file/block

Runtime to sort block: temp92.txt of SIZE = 5,291,005 double numbers using quickSort time = 972 milliseconds

File has been created

writing sorted array to filetemp92.txt

printing newly created temp array

0.5265543487119435

0.22110093116615703

0.9075626099939539

0.754943019345627

0.31997358269823584

0.07694417193067338

0.3557933531123192

0.1816670636611295

0.7425634668023767

0.9638345377216748

starting to create file 93

sorting file/block

Runtime to sort block: temp93.txt of SIZE = 5,291,005 double numbers using quickSort time = 965 milliseconds

File has been created

writing sorted array to filetemp93.txt

printing newly created temp array

0.8943032154254671

0.08081651774621756

0.4923288948948987

0.6546188185850563

0.7897487831941022

0.21458812897520074

0.18086198420582567

0.1121560474526544

0.1260490414978892

0.956240003482927

starting to create file 94

sorting file/block

Runtime to sort block: temp94.txt of SIZE = 5,291,005 double numbers using quickSort time = 973 milliseconds

File has been created

writing sorted array to filetemp94.txt

printing newly created temp array

0.9174978463465164

0.05191190554583791

0.5106525902878254

0.2181335969395808

0.33940640681588785

0.5516318685803364

0.17255945877690615

0.25343458807658537

0.6727479675049738

0.2547228223388245

starting to create file 95

sorting file/block

Runtime to sort block: temp95.txt of SIZE = 5,291,005 double numbers using quickSort time = 950 milliseconds

File has been created

writing sorted array to filetemp95.txt

printing newly created temp array

0.49449545219777613

0.17754962869406365

0.32101790227945726

0.33570125480698754

0.7111843556714595

0.8451209149628416

0.7627217555515826

0.792486557558946

0.8024615693242058

0.9841848893400796

starting to create file 96

sorting file/block

Runtime to sort block: temp96.txt of SIZE = 5,291,005 double numbers using quickSort time = 976 milliseconds

File has been created

writing sorted array to filetemp96.txt

printing newly created temp array

0.9412447959277866

0.668666712210815

0.76204778813095

0.4107727009578296

0.9684400474407355

0.5308379342700512

0.9124661704378707

0.8119281972017152

0.5758645643177002

0.25609504402638406

starting to create file 97

sorting file/block

Runtime to sort block: temp97.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,106 milliseconds

File has been created

writing sorted array to filetemp97.txt

printing newly created temp array

0.805064211477004

0.4178647521972303

0.5759531446447564

0.14645949885914578

0.11858885693759746

0.8823417173022511

0.2619352885562256

0.10371640998054332

0.40413996171931343

0.5437887155036438

starting to create file 98

sorting file/block

Runtime to sort block: temp98.txt of SIZE = 5,291,005 double numbers using quickSort time = 947 milliseconds

File has been created

writing sorted array to filetemp98.txt

printing newly created temp array

0.3139943775792037

0.9646568806963148

0.073069153563875

0.9037840724262179

0.14608916217859813

0.3230773545443343

0.6986750871025263

0.20090132840242814

0.1978392577233552

0.20569803551083177

starting to create file 99

sorting file/block

Runtime to sort block: temp99.txt of SIZE = 5,291,005 double numbers using quickSort time = 946 milliseconds

File has been created

writing sorted array to filetemp99.txt

printing newly created temp array

0.869731127963166

0.36627496813296867

0.2034874964048422

0.10247803508962106

0.07952351927869894

0.9786791965154537

0.1138733708128079

0.5488472418217012

0.5774192529237825

0.8610751832716522

starting to create file 100

sorting file/block

Runtime to sort block: temp100.txt of SIZE = 5,291,005 double numbers using quickSort time = 942 milliseconds

File has been created

writing sorted array to filetemp100.txt

printing newly created temp array

0.19205308839149426

0.9074575762822324

0.7854569017302946

0.8187167475183683

0.6594512816888113

0.3747788080311115

0.06124387037897605

0.871413390333122

0.026202486638158273

0.3977344377484354

starting to create file 101

sorting file/block

Runtime to sort block: temp101.txt of SIZE = 5,291,005 double numbers using quickSort time = 963 milliseconds

File has been created

writing sorted array to filetemp101.txt

printing newly created temp array

0.680973868192275

0.959513965491363

0.2298912283250738

0.1659007070798928

0.43063589498910115

0.3663395227680081

0.8443284996167402

0.03624269498673782

0.25537617518267075

0.19566300454759344

starting to create file 102

sorting file/block

Runtime to sort block: temp102.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,011 milliseconds

File has been created

writing sorted array to filetemp102.txt

printing newly created temp array

0.3627703945709345

0.3103277335766158

0.36509042830560556

0.36264941422472263

0.16945191082997957

0.9960574837606547

0.22152286276969302

0.7579440925441717

0.828401791543667

0.08865622410109208

starting to create file 103

sorting file/block

Runtime to sort block: temp103.txt of SIZE = 5,291,005 double numbers using quickSort time = 959 milliseconds

File has been created

writing sorted array to filetemp103.txt

printing newly created temp array

0.8300243315187714

0.47627909248150424

0.21100564941543798

0.3907045247145029

0.8600265651359496

0.7767266747763014

0.5959276494157989

0.27548306638212583

0.7255743361839458

0.4814781433828531

starting to create file 104

sorting file/block

Runtime to sort block: temp104.txt of SIZE = 5,291,005 double numbers using quickSort time = 960 milliseconds

File has been created

writing sorted array to filetemp104.txt

printing newly created temp array

0.491870366155041

0.8672835664742229

0.0036981136024287764

0.12533671021197557

0.8303604230583648

0.45446510652675076

0.7542669798134023

0.7342267266337834

0.8594223525178106

0.07758587577333509

starting to create file 105

sorting file/block

Runtime to sort block: temp105.txt of SIZE = 5,291,005 double numbers using quickSort time = 960 milliseconds

File has been created

writing sorted array to filetemp105.txt

printing newly created temp array

0.013578143424429978

0.36145363025853916

0.3369433689443815

0.9860636182013023

0.6686944287219687

0.8229063616251061

0.13492666375259577

0.6091537532404836

0.43041063999470064

0.06820387235322345

starting to create file 106

sorting file/block

Runtime to sort block: temp106.txt of SIZE = 5,291,005 double numbers using quickSort time = 954 milliseconds

File has been created

writing sorted array to filetemp106.txt

printing newly created temp array

0.9679697537464897

0.15931739528143418

0.5416664382466558

0.07425334764964253

0.5258696421293365

0.6802075152630035

0.029532092374622287

0.1635651275128851

0.587505152630385

0.4852590289566443

starting to create file 107

sorting file/block

Runtime to sort block: temp107.txt of SIZE = 5,291,005 double numbers using quickSort time = 942 milliseconds

File has been created

writing sorted array to filetemp107.txt

printing newly created temp array

0.02203833880991002

0.5577163190941262

0.6931572941254056

0.8210160323724088

0.0728294449356236

0.9593948345097953

0.3970891578264487

0.22328260938903777

0.3353501641047981

0.10420937915809614

starting to create file 108

sorting file/block

Runtime to sort block: temp108.txt of SIZE = 5,291,005 double numbers using quickSort time = 943 milliseconds

File has been created

writing sorted array to filetemp108.txt

printing newly created temp array

0.25676641064281525

0.9001661121644178

0.5092620028405801

0.5891558992145252

0.6383200541348893

0.769698616970103

0.9399904090578259

0.5597003279865672

0.2534152817917936

0.9132379139140745

starting to create file 109

sorting file/block

Runtime to sort block: temp109.txt of SIZE = 5,291,005 double numbers using quickSort time = 953 milliseconds

File has been created

writing sorted array to filetemp109.txt

printing newly created temp array

0.8133833425170187

0.7443228146915755

0.6031085476080199

0.6090887902519477

0.5634039506927334

0.8615079797714674

0.631066240504024

0.9166784603806221

0.7374650966031672

0.04901395042069512

starting to create file 110

sorting file/block

Runtime to sort block: temp110.txt of SIZE = 5,291,005 double numbers using quickSort time = 938 milliseconds

File has been created

writing sorted array to filetemp110.txt

printing newly created temp array

0.900208912436772

0.5264172534765897

0.04645976555204545

0.9507990837191224

0.8582742594688765

0.49197806505428676

0.4784922156721563

0.12272499381607971

0.15041833133419447

0.7586092188193624

starting to create file 111

sorting file/block

Runtime to sort block: temp111.txt of SIZE = 5,291,005 double numbers using quickSort time = 944 milliseconds

File has been created

writing sorted array to filetemp111.txt

printing newly created temp array

0.29513956052336243

0.8939401046595173

0.5511468993186601

0.07811415445127401

0.26964767650966526

0.3731360813214232

0.36446117676573275

0.04379877928303777

0.9981021576686446

0.20628534700289813

starting to create file 112

sorting file/block

Runtime to sort block: temp112.txt of SIZE = 5,291,005 double numbers using quickSort time = 948 milliseconds

File has been created

writing sorted array to filetemp112.txt

printing newly created temp array

0.5310551885640142

0.7675215474656154

0.9923818833869333

0.3105838004289394

0.8964952280333494

0.6696529626748667

0.6410289916943793

0.9384269631112784

0.1625016114221146

0.7198969921168904

starting to create file 113

sorting file/block

Runtime to sort block: temp113.txt of SIZE = 5,291,005 double numbers using quickSort time = 994 milliseconds

File has been created

writing sorted array to filetemp113.txt

printing newly created temp array

0.757149081470018

0.9167413545676666

0.12289622329803362

0.009316909833262499

0.897521861103297

0.5463703393751387

0.6236529368575356

0.9443716362630629

0.4443854822231754

0.9224495119716307

starting to create file 114

sorting file/block

Runtime to sort block: temp114.txt of SIZE = 5,291,005 double numbers using quickSort time = 980 milliseconds

File has been created

writing sorted array to filetemp114.txt

printing newly created temp array

0.19734904756332639

0.6160290397796021

0.7889777055942199

0.5818744251180399

0.1624572870598393

0.8384527589051105

0.052848886770402115

0.34772529755861037

0.3166881730905864

0.3295617931209861

starting to create file 115

sorting file/block

Runtime to sort block: temp115.txt of SIZE = 5,291,005 double numbers using quickSort time = 980 milliseconds

File has been created

writing sorted array to filetemp115.txt

printing newly created temp array

0.423170977865727

0.21515601762582348

0.8108563915319759

0.79762290205908

0.19280658657970828

0.9937836107089619

0.3461628605629897

0.21882292223683308

0.8104411910408413

0.36233469262906026

starting to create file 116

sorting file/block

Runtime to sort block: temp116.txt of SIZE = 5,291,005 double numbers using quickSort time = 953 milliseconds

File has been created

writing sorted array to filetemp116.txt

printing newly created temp array

0.3468744236447121

0.10727616970140996

0.2905248017208888

0.8128204044681092

0.8714567981730128

0.09365625948720957

0.32709770933887095

0.9651086307832413

0.14641858313215916

0.9499167366116581

starting to create file 117

sorting file/block

Runtime to sort block: temp117.txt of SIZE = 5,291,005 double numbers using quickSort time = 961 milliseconds

File has been created

writing sorted array to filetemp117.txt

printing newly created temp array

0.1137884400600574

0.5869777790711853

0.6621644574648723

0.5844212413410568

0.9610757000401461

0.0648671841563141

0.6371968102241158

0.9502475085677962

0.18714921760974956

0.2286445560440884

starting to create file 118

sorting file/block

Runtime to sort block: temp118.txt of SIZE = 5,291,005 double numbers using quickSort time = 954 milliseconds

File has been created

writing sorted array to filetemp118.txt

printing newly created temp array

0.4665943252170671

0.10164508454134469

0.6469350466696688

0.21870155827363924

0.50044678476872

0.7546296650504456

0.9083888985103454

0.0013980219396734217

0.797423198371262

0.9758901122763312

starting to create file 119

sorting file/block

Runtime to sort block: temp119.txt of SIZE = 5,291,005 double numbers using quickSort time = 956 milliseconds

File has been created

writing sorted array to filetemp119.txt

printing newly created temp array

0.47118118417585975

0.718842370348385

0.23119372807261118

0.5027084220138562

0.054477344423450536

0.778279432671493

0.23392860858231512

0.2754707260048834

0.7659584664818759

0.8788359784179232

starting to create file 120

sorting file/block

Runtime to sort block: temp120.txt of SIZE = 5,291,005 double numbers using quickSort time = 949 milliseconds

File has been created

writing sorted array to filetemp120.txt

printing newly created temp array

0.33007731658687667

0.3228383518993867

0.18646816955249157

0.10365350910767768

0.6607797036987217

0.05820178922532793

0.4861528193385768

0.5175485362971657

0.5714135384022975

0.7937468957878837

starting to create file 121

sorting file/block

Runtime to sort block: temp121.txt of SIZE = 5,291,005 double numbers using quickSort time = 950 milliseconds

File has been created

writing sorted array to filetemp121.txt

printing newly created temp array

0.9132616140758468

0.15190795847056704

0.42023378294505154

0.8762894495574076

0.8893099671423318

0.0429306268680828

0.18667811485441455

0.19955583030763624

0.3355380107216478

0.46917362502020676

starting to create file 122

sorting file/block

Runtime to sort block: temp122.txt of SIZE = 5,291,005 double numbers using quickSort time = 985 milliseconds

File has been created

writing sorted array to filetemp122.txt

printing newly created temp array

0.3162184915686842

0.8644321233035818

0.47966896950994464

0.7123178518805289

0.9396124949357098

0.8059160064860971

0.7081125398242885

0.4840268603804744

0.04803829396380965

0.28421985592721166

starting to create file 123

sorting file/block

Runtime to sort block: temp123.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,003 milliseconds

File has been created

writing sorted array to filetemp123.txt

printing newly created temp array

0.42628025372495204

0.9880332373023268

0.7158292726309585

0.5687645679199441

0.6109542501288142

0.30089196849895106

0.6705759802348081

0.8754339105868802

0.7981010700226432

0.7449802179174849

starting to create file 124

sorting file/block

Runtime to sort block: temp124.txt of SIZE = 5,291,005 double numbers using quickSort time = 941 milliseconds

File has been created

writing sorted array to filetemp124.txt

printing newly created temp array

0.3300548800530212

0.24698542951871982

0.35416263391422365

0.5873205853659804

0.9919413354970232

0.9082838675641964

0.12203642091552536

0.6666216529016759

0.8692642721426069

0.6566883865953618

starting to create file 125

sorting file/block

Runtime to sort block: temp125.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,013 milliseconds

File has been created

writing sorted array to filetemp125.txt

printing newly created temp array

0.3277317194234417

0.16461313407217748

0.3660337426892645

0.0892736908199937

0.9864849620676956

0.15668540234728634

0.9704147330648752

0.6442953552293139

0.08407330628518006

0.13765511251676887

starting to create file 126

sorting file/block

Runtime to sort block: temp126.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,033 milliseconds

File has been created

writing sorted array to filetemp126.txt

printing newly created temp array

0.5016667368596418

0.5425117041086299

0.6479978999160749

0.1249560426834907

0.5688477735648335

0.40059316403114065

0.028911264275932824

0.41705820444417874

0.5456604681909167

0.12390257065772126

starting to create file 127

sorting file/block

Runtime to sort block: temp127.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,008 milliseconds

File has been created

writing sorted array to filetemp127.txt

printing newly created temp array

0.23230122174507262

0.05187919938335794

0.895049367393864

0.5509112991564713

0.13356598016014154

0.9193151834563599

0.8916106349679548

0.3797461053576401

0.0689553047507584

0.927776240962522

starting to create file 128

sorting file/block

Runtime to sort block: temp128.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,153 milliseconds

File has been created

writing sorted array to filetemp128.txt

printing newly created temp array

0.34817746950160244

0.6261058191720978

0.5517766423959376

0.7161135106895204

0.43693488697154825

0.4497886839760553

0.26337134444896204

0.06881686522668284

0.3496183858222883

0.23072283972851992

starting to create file 129

sorting file/block

Runtime to sort block: temp129.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,064 milliseconds

File has been created

writing sorted array to filetemp129.txt

printing newly created temp array

0.02038421616449826

0.6259114269052731

0.3572973273398099

0.43049738595592224

0.8309686213326203

0.8897025828816805

0.13861057881265548

0.2918800185808529

0.13494422964908837

0.4100429260837216

starting to create file 130

sorting file/block

Runtime to sort block: temp130.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,009 milliseconds

File has been created

writing sorted array to filetemp130.txt

printing newly created temp array

0.25847584563699644

0.9505382014741094

0.876736462571807

0.5200261073209903

0.48712263703318426

0.47126683784203927

0.11373970509263598

0.369042668991164

0.11059152269466466

0.5325072522202806

starting to create file 131

sorting file/block

Runtime to sort block: temp131.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,041 milliseconds

File has been created

writing sorted array to filetemp131.txt

printing newly created temp array

0.6697042250971516

0.017471356822205686

0.12433996978350104

0.09674878310551993

0.08582182212641898

0.056861250681292885

0.9563700558679458

0.5343573741959659

0.21295272527297227

0.5360880253110804

starting to create file 132

sorting file/block

Runtime to sort block: temp132.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,003 milliseconds

File has been created

writing sorted array to filetemp132.txt

printing newly created temp array

0.5678645982084963

0.44387021517380243

0.8927642073152029

0.5731636321621781

0.221583630709125

0.9595524267832625

0.45614920569686956

0.9009515291532115

0.9018637359571475

0.1668184432084454

starting to create file 133

sorting file/block

Runtime to sort block: temp133.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,033 milliseconds

File has been created

writing sorted array to filetemp133.txt

printing newly created temp array

0.28469469267292014

0.8203125499414825

0.14732552037554936

0.8252278340958958

0.9306947763993242

0.016713719518579695

0.5790212854228393

0.1919434775293618

0.7195403044595073

0.21704826990162795

starting to create file 134

sorting file/block

Runtime to sort block: temp134.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,030 milliseconds

File has been created

writing sorted array to filetemp134.txt

printing newly created temp array

0.7134004249127357

0.91843253754343

0.16814927309206462

0.503482394398925

0.23489752618810078

0.37982504920851434

0.27229102816762385

0.842880337299726

0.6026686453892779

0.7043669707052365

starting to create file 135

sorting file/block

Runtime to sort block: temp135.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,019 milliseconds

File has been created

writing sorted array to filetemp135.txt

printing newly created temp array

0.6051675925077237

0.9177345853111973

0.3074455138519153

0.08575501837772392

0.8056514276705606

0.0590294945268075

0.6914905511911659

0.49700697185487785

0.1400214769526681

0.9066127590324123

starting to create file 136

sorting file/block

Runtime to sort block: temp136.txt of SIZE = 5,291,005 double numbers using quickSort time = 987 milliseconds

File has been created

writing sorted array to filetemp136.txt

printing newly created temp array

0.8488625340655653

0.3582879155036617

0.2884918377427581

0.6608511916224433

0.024362032305203063

0.23083229666317628

0.6313996476052398

0.3859171968368367

0.7948125436481686

0.4204965302500545

starting to create file 137

sorting file/block

Runtime to sort block: temp137.txt of SIZE = 5,291,005 double numbers using quickSort time = 963 milliseconds

File has been created

writing sorted array to filetemp137.txt

printing newly created temp array

0.14556200381629913

0.5233305093604477

0.060602929689585805

0.11989396751934589

0.9529441341948741

0.6573217470384193

0.24418208479544734

0.18608784426672287

0.8663346629786668

0.8400804753722935

starting to create file 138

sorting file/block

Runtime to sort block: temp138.txt of SIZE = 5,291,005 double numbers using quickSort time = 949 milliseconds

File has been created

writing sorted array to filetemp138.txt

printing newly created temp array

0.2153282856883032

0.36863883450655743

0.37794563381883084

0.43799397555119857

0.24533236100238243

0.577184570340888

0.7927549194574968

0.29832639614014933

0.5860593926909227

0.8566251591341673

starting to create file 139

sorting file/block

Runtime to sort block: temp139.txt of SIZE = 5,291,005 double numbers using quickSort time = 934 milliseconds

File has been created

writing sorted array to filetemp139.txt

printing newly created temp array

0.9995685178363211

0.6672663437600542

0.39403124780702226

0.5869103636750548

0.7621047674072049

0.9860540625669696

0.018114520280681612

0.5323288712156902

0.6794636729184783

0.22437903065453213

starting to create file 140

sorting file/block

Runtime to sort block: temp140.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,034 milliseconds

File has been created

writing sorted array to filetemp140.txt

printing newly created temp array

0.6391290397136468

0.06223746818537412

0.949906562149329

0.03354177222759136

0.4065996186101759

0.2543184775416222

0.6895236886835754

0.2288227400520576

0.6858017894769393

0.6920759537495872

starting to create file 141

sorting file/block

Runtime to sort block: temp141.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,002 milliseconds

File has been created

writing sorted array to filetemp141.txt

printing newly created temp array

0.2236068252311545

0.04478409498100888

0.576552617812431

0.47614878417650786

0.08853694381770216

0.5371905716342

0.40890022098149226

0.8124528084615369

0.2652455311365398

0.12228933291975452

starting to create file 142

sorting file/block

Runtime to sort block: temp142.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,041 milliseconds

File has been created

writing sorted array to filetemp142.txt

printing newly created temp array

0.9090138124851201

0.5030275915830033

0.9999893199032505

0.8812178267960048

0.5299211590187907

0.007114158857269737

0.8180578440038425

0.5198460016233519

0.3499726336135234

0.611483710925754

starting to create file 143

sorting file/block

Runtime to sort block: temp143.txt of SIZE = 5,291,005 double numbers using quickSort time = 934 milliseconds

File has been created

writing sorted array to filetemp143.txt

printing newly created temp array

0.7085632536149996

0.2963172051329639

0.12570998313787196

0.7075773561714798

0.007636130795413587

0.637603615008798

0.9641383216082106

0.3398203756353795

0.8038468838038794

0.8811648103772377

starting to create file 144

sorting file/block

Runtime to sort block: temp144.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,018 milliseconds

File has been created

writing sorted array to filetemp144.txt

printing newly created temp array

0.8797954859650085

0.19494353123052854

0.16092193341300098

0.558860072510027

0.7942643492686585

0.8584479668151498

0.6243200349391673

0.33465938157096575

0.8853833277880805

0.012895641012263814

starting to create file 145

sorting file/block

Runtime to sort block: temp145.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,067 milliseconds

File has been created

writing sorted array to filetemp145.txt

printing newly created temp array

0.0750686891966541

0.7416612248856141

0.2999762876401221

0.2814468629311274

0.9279095815843686

0.41939005049678457

0.39222184282014294

0.03530192400641341

0.8022371994547347

0.8677379570828221

starting to create file 146

sorting file/block

Runtime to sort block: temp146.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,033 milliseconds

File has been created

writing sorted array to filetemp146.txt

printing newly created temp array

0.8873531831681698

0.8035778547797569

0.6717157757817174

0.7106079019672078

0.9821276679386209

0.4826805861919893

0.2620556202694849

0.4572903062283289

0.9979625635366269

0.17886340834627934

starting to create file 147

sorting file/block

Runtime to sort block: temp147.txt of SIZE = 5,291,005 double numbers using quickSort time = 988 milliseconds

File has been created

writing sorted array to filetemp147.txt

printing newly created temp array

0.5367352454011197

0.9426805516167331

0.6090771975023109

0.4193597822813978

0.28010468013719014

0.0716265548871623

0.5739334880712917

0.14824930772022027

0.4114560535394238

0.397305351722805

starting to create file 148

sorting file/block

Runtime to sort block: temp148.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,034 milliseconds

File has been created

writing sorted array to filetemp148.txt

printing newly created temp array

0.13199650414846964

0.5305047449464497

0.39264445664758096

0.5184686349800842

0.2410924820414011

0.6376642331422366

0.022428284712445845

0.011619499291896096

0.8895964949518607

0.43994777210130975

starting to create file 149

sorting file/block

Runtime to sort block: temp149.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,018 milliseconds

File has been created

writing sorted array to filetemp149.txt

printing newly created temp array

0.9121168655703294

0.3343171481958065

0.8172336549727378

0.5549265869899026

0.32517941735573863

0.5250187106342199

0.7048417738263788

0.7793924507785489

0.8428043549505319

0.014429782690638548

starting to create file 150

sorting file/block

Runtime to sort block: temp150.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,003 milliseconds

File has been created

writing sorted array to filetemp150.txt

printing newly created temp array

0.8018703425001522

0.16522813046171692

0.909321115682836

0.589575681476463

0.3827928023484509

0.28437139181355975

0.49446851267547154

0.7654985873675609

0.1749480418412318

0.05044449526355643

starting to create file 151

sorting file/block

Runtime to sort block: temp151.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,034 milliseconds

File has been created

writing sorted array to filetemp151.txt

printing newly created temp array

0.21428648888587754

0.42207782664002236

0.5805308390667488

0.9906102432547771

0.8228812017059517

0.8764051011694648

0.12035682437252282

0.4102702627712794

0.6663596650524742

0.38568091476194055

starting to create file 152

sorting file/block

Runtime to sort block: temp152.txt of SIZE = 5,291,005 double numbers using quickSort time = 980 milliseconds

File has been created

writing sorted array to filetemp152.txt

printing newly created temp array

0.8389278360851047

0.549460092413123

0.21525781668902844

0.9673277760679635

0.5436516932335763

0.7833993139887631

0.31785781809219826

0.47845936393755295

0.18888779150840196

0.013737619549404223

starting to create file 153

sorting file/block

Runtime to sort block: temp153.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,002 milliseconds

File has been created

writing sorted array to filetemp153.txt

printing newly created temp array

0.08202383187062134

0.5912232787104549

0.7389733057045862

0.5119582520419308

0.10618591105969022

0.14992235489725803

0.7909317467454322

0.5897163136747454

0.6291161142601974

0.710859150627007

starting to create file 154

sorting file/block

Runtime to sort block: temp154.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,056 milliseconds

File has been created

writing sorted array to filetemp154.txt

printing newly created temp array

0.886278447477546

0.8747938090822228

0.6101068681874688

0.9034507132482056

0.42252969989712086

0.030706523257706286

0.20791956810194157

0.648813841536927

0.38876492082330605

0.12406321631387673

starting to create file 155

sorting file/block

Runtime to sort block: temp155.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,006 milliseconds

File has been created

writing sorted array to filetemp155.txt

printing newly created temp array

0.9545062968898406

0.5696977185231727

0.7950355787698598

0.7304506468029778

0.3869589358365568

0.4832027669157981

0.49749810821395635

0.162466304732662

0.6969021631430704

0.7212454352841993

starting to create file 156

sorting file/block

Runtime to sort block: temp156.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,033 milliseconds

File has been created

writing sorted array to filetemp156.txt

printing newly created temp array

0.3523131371994035

0.1605141789413519

0.3833282750391429

0.25967011104922855

0.6509952878418601

0.9999374400232005

0.25646739443579925

0.8898031519871156

0.39106087041053006

0.6078183353066805

starting to create file 157

sorting file/block

Runtime to sort block: temp157.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,018 milliseconds

File has been created

writing sorted array to filetemp157.txt

printing newly created temp array

0.43853254311930534

0.7101773831557534

0.8132337033077498

0.6665387065796167

0.1376278449565781

0.6032704907734973

0.5226208056175352

0.10926963727896699

0.7229794522993337

0.5009497579252868

starting to create file 158

sorting file/block

Runtime to sort block: temp158.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,033 milliseconds

File has been created

writing sorted array to filetemp158.txt

printing newly created temp array

0.9544268090772909

0.3266064509259594

0.9189344788436348

0.04857256133152088

0.8190181302256481

0.45515777721159234

0.5962569295060075

0.2776322227082145

0.8020142513964426

0.16669818551297477

starting to create file 159

sorting file/block

Runtime to sort block: temp159.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,034 milliseconds

File has been created

writing sorted array to filetemp159.txt

printing newly created temp array

0.020758648644020994

0.9488661668806908

0.8196234436478209

0.3556154817459115

0.055723714894582055

0.8664591782652483

0.42749658356796716

0.878727312679276

0.03644182916883887

0.7952763925035503

starting to create file 160

sorting file/block

Runtime to sort block: temp160.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,002 milliseconds

File has been created

writing sorted array to filetemp160.txt

printing newly created temp array

0.0995311871677732

0.2819245280868743

0.9204889436019262

0.9204312300572958

0.7148850722704924

0.5359529502388569

0.6317048046203283

0.27004408488349885

0.7552116127768369

0.05333195886826514

starting to create file 161

sorting file/block

Runtime to sort block: temp161.txt of SIZE = 5,291,005 double numbers using quickSort time = 992 milliseconds

File has been created

writing sorted array to filetemp161.txt

printing newly created temp array

0.7748815608929801

0.017832434941931097

0.3569926755360101

0.5977837366590537

0.21680036664217417

0.04394993958916593

0.3758692787195035

0.47082826137456135

0.2754141309612288

0.4286908366350839

starting to create file 162

sorting file/block

Runtime to sort block: temp162.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,002 milliseconds

File has been created

writing sorted array to filetemp162.txt

printing newly created temp array

0.0716378853628028

0.32353858880522746

0.14656469305130293

0.9939779347907297

0.9010546995523717

0.08745415823472047

0.7204114543986629

0.9864896386057892

0.8201645721079707

0.2947876114232212

starting to create file 163

sorting file/block

Runtime to sort block: temp163.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,003 milliseconds

File has been created

writing sorted array to filetemp163.txt

printing newly created temp array

0.2834872648272372

0.9573958686489014

0.6423061230939413

0.4291229037411156

0.4910470901428713

0.0693071292206785

0.1508902980231891

0.9388216107362192

0.5544119074747406

0.4805979294727122

starting to create file 164

sorting file/block

Runtime to sort block: temp164.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,003 milliseconds

File has been created

writing sorted array to filetemp164.txt

printing newly created temp array

0.04597486279415597

0.2156868769528747

0.010906975442889544

0.5926357394341829

0.5611311753333519

0.4923971153984833

0.4906120046912217

0.7045058204655367

0.32442298868690533

0.9580209630755684

starting to create file 165

sorting file/block

Runtime to sort block: temp165.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,003 milliseconds

File has been created

writing sorted array to filetemp165.txt

printing newly created temp array

0.8053350341536285

0.4345956756870667

0.39975000722738807

0.28508970997714156

0.4650673747603967

0.7721783215190184

0.7682357862288716

0.13327774281030347

0.03351414405457109

0.011476320489316572

starting to create file 166

sorting file/block

Runtime to sort block: temp166.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,003 milliseconds

File has been created

writing sorted array to filetemp166.txt

printing newly created temp array

0.26738542147782096

0.5513348904805079

0.5497264165712685

0.3525304178530795

0.8564108811867555

0.9828577633682926

0.7163611791350092

0.6868211821260563

0.783312150335439

0.7023772413288237

starting to create file 167

sorting file/block

Runtime to sort block: temp167.txt of SIZE = 5,291,005 double numbers using quickSort time = 980 milliseconds

File has been created

writing sorted array to filetemp167.txt

printing newly created temp array

0.08074588285891204

0.8279836215492808

0.9182066100618558

0.9887242321596328

0.9386233461556411

0.11425665957598541

0.5873452991272751

0.6592130867918589

0.7712899755243463

0.2123478246621041

starting to create file 168

sorting file/block

Runtime to sort block: temp168.txt of SIZE = 5,291,005 double numbers using quickSort time = 997 milliseconds

File has been created

writing sorted array to filetemp168.txt

printing newly created temp array

0.41678380469629295

0.2525375123627037

0.017632226357767178

0.124245796466667

0.8284168685051991

0.9785419453176445

0.6780461484341183

0.8757854534860791

0.9670643376257847

0.9565570209622399

starting to create file 169

sorting file/block

Runtime to sort block: temp169.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,001 milliseconds

File has been created

writing sorted array to filetemp169.txt

printing newly created temp array

0.7806972587117131

0.5083953852715787

0.8594863313395595

0.7261065412341242

0.4130883597881534

0.04643678602938317

0.37204404930457224

0.15886603996974025

0.40640363106235

0.7000971896546105

starting to create file 170

sorting file/block

Runtime to sort block: temp170.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,056 milliseconds

File has been created

writing sorted array to filetemp170.txt

printing newly created temp array

0.8574587933384935

0.3346786972111264

0.9360805031118632

0.7969719581975898

0.19699636901012652

0.5697535449547709

0.309344404139135

0.4324127449553301

0.581697528284257

0.20060544466102748

starting to create file 171

sorting file/block

Runtime to sort block: temp171.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,072 milliseconds

File has been created

writing sorted array to filetemp171.txt

printing newly created temp array

0.8100182290009693

0.51609389721976

0.3671010387005448

0.6832775817460666

0.8509794452629805

0.012211661318935807

0.5522444240305221

0.18962092078856319

0.3778184741954158

0.39843095036680765

starting to create file 172

sorting file/block

Runtime to sort block: temp172.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,047 milliseconds

File has been created

writing sorted array to filetemp172.txt

printing newly created temp array

0.482912830397506

0.7319237448339133

0.9918718837077943

0.972237032667577

0.5180476083941166

0.380371599331241

0.7872620003634034

0.553706642432909

0.7898607042959865

0.7276669626421232

starting to create file 173

sorting file/block

Runtime to sort block: temp173.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,003 milliseconds

File has been created

writing sorted array to filetemp173.txt

printing newly created temp array

0.7031743458422595

0.7085079242234767

0.7793491242624208

0.39248387863952283

0.7519511358248266

0.5397660632537139

0.330714660239496

0.424817756363867

0.6044779200445264

0.6435331567866517

starting to create file 174

sorting file/block

Runtime to sort block: temp174.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,017 milliseconds

File has been created

writing sorted array to filetemp174.txt

printing newly created temp array

0.6752054923466325

0.08518083278178912

0.24181412094932775

0.5362593107324682

0.8825200159749229

0.39390376888778666

0.9392837134288446

0.8616957091515444

0.05902314591513247

0.24629099393471443

starting to create file 175

sorting file/block

Runtime to sort block: temp175.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,003 milliseconds

File has been created

writing sorted array to filetemp175.txt

printing newly created temp array

0.574600638716793

0.9970881100006317

0.8101940143070265

0.4666364003698784

0.2883446585357742

0.7675543935192194

0.4944981309944274

0.46651461305104036

0.48682746505437513

0.21462093153499384

starting to create file 176

sorting file/block

Runtime to sort block: temp176.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,035 milliseconds

File has been created

writing sorted array to filetemp176.txt

printing newly created temp array

0.08856876522213575

0.848477604662698

0.6124301293455762

0.9971744258947011

0.22638295903378558

0.9791448411153533

0.31644724176728756

0.9490702859894713

0.5704675613778618

0.9934180988570811

starting to create file 177

sorting file/block

Runtime to sort block: temp177.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,022 milliseconds

File has been created

writing sorted array to filetemp177.txt

printing newly created temp array

0.26707831421792894

0.08958316561231439

0.14267455551594022

0.9504230749261808

0.791744962824911

0.12466519742260795

0.20153444475792648

0.7910686866274503

0.8397530328232218

0.30813413042143456

starting to create file 178

sorting file/block

Runtime to sort block: temp178.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,036 milliseconds

File has been created

writing sorted array to filetemp178.txt

printing newly created temp array

0.7741371104932081

0.9344851148923207

0.4454213802794109

0.7286801810556816

0.9627867839994848

0.02697554214621045

0.6744531155506324

0.30841980844947237

0.642810966064303

0.03289558939882009

starting to create file 179

sorting file/block

Runtime to sort block: temp179.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,003 milliseconds

File has been created

writing sorted array to filetemp179.txt

printing newly created temp array

0.8845777802834959

0.05392854764654842

0.5888339207170998

0.16133978843015007

0.340574490287026

0.4928539413018578

0.3820729327983392

0.8336823329726784

0.6352682231567983

0.7113425311296336

starting to create file 180

sorting file/block

Runtime to sort block: temp180.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,103 milliseconds

File has been created

writing sorted array to filetemp180.txt

printing newly created temp array

0.5003682421915738

0.8451593232884542

0.6009981711578468

0.39831894510729726

0.8912807737743081

0.41283495965484995

0.09349657307087

0.924396637130364

0.07310702561901539

0.8771588847250799

starting to create file 181

sorting file/block

Runtime to sort block: temp181.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,030 milliseconds

File has been created

writing sorted array to filetemp181.txt

printing newly created temp array

0.09425195116410467

0.38620124055259153

0.054461396595287925

0.5763877585649707

0.0177413637762891

0.7822779355214277

0.12489378949771401

0.8054503538968029

0.8300303089341601

0.7634785622326282

starting to create file 182

sorting file/block

Runtime to sort block: temp182.txt of SIZE = 5,291,005 double numbers using quickSort time = 986 milliseconds

File has been created

writing sorted array to filetemp182.txt

printing newly created temp array

0.9581314801722208

0.9099431516154158

0.42829683286275666

0.1506276492969969

0.5489634915233957

0.6774582513990205

0.9937414308165481

0.7208708491190426

0.7474854586346008

0.8938921970697177

starting to create file 183

sorting file/block

Runtime to sort block: temp183.txt of SIZE = 5,291,005 double numbers using quickSort time = 949 milliseconds

File has been created

writing sorted array to filetemp183.txt

printing newly created temp array

0.8704296362454376

0.2276069862953065

0.6440071889133627

0.9983359243053114

0.6775812515516838

0.9938247797084105

0.8041153533661292

0.8902057133263084

0.82457380308066

0.06248786828868291

starting to create file 184

sorting file/block

Runtime to sort block: temp184.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,017 milliseconds

File has been created

writing sorted array to filetemp184.txt

printing newly created temp array

0.0931396828306078

0.863121229648574

0.29667426220225923

0.9973029398089235

0.4747035063653676

0.009286121509534673

0.8252566335379807

0.9191118920418151

0.35789169452758607

0.43899239425033243

starting to create file 185

sorting file/block

Runtime to sort block: temp185.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,046 milliseconds

File has been created

writing sorted array to filetemp185.txt

printing newly created temp array

0.5567251305063402

0.07973950413491482

0.12917158948054897

0.1328961239576245

0.7642324432451002

0.06924687816569863

0.17803051394822222

0.11847401700732063

0.3857147819462966

0.241139726875078

starting to create file 186

sorting file/block

Runtime to sort block: temp186.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,002 milliseconds

File has been created

writing sorted array to filetemp186.txt

printing newly created temp array

0.820657161486552

0.6558183094068062

0.671087797021002

0.16354367709583906

0.40559223201407035

0.0938448687230482

0.45243466736609395

0.15968391263628146

0.13356165969204015

0.7265772243503458

starting to create file 187

sorting file/block

Runtime to sort block: temp187.txt of SIZE = 5,291,005 double numbers using quickSort time = 1,056 milliseconds

File has been created

writing sorted array to filetemp187.txt

printing newly created temp array

0.7065663442749879

0.22451761382312752

0.3528334512011362

0.5641656640726543

0.9812314782284642

0.4634820325275364

0.08218254936865299

0.6076197064450595

0.9392214394799844

0.7211889249595301

starting to create file 188

sorting file/block

Runtime to sort block: temp188.txt of SIZE = 5,291,060 double numbers using quickSort time = 1,019 milliseconds

File has been created

writing sorted array to filetemp188.txt

BUILD SUCCESSFUL (total time: 85 minutes 31 seconds)