**Homework 3 Q4- Output**

The average of the average path length of the tree of size : 1 is : 0.0

The std deviation of the average path length of the tree of size : 1 is : 0.0

The average of the average path length of the tree of size : 2 is : 0.5

The std deviation of the average path length of the tree of size : 2 is : 0.0

The average of the average path length of the tree of size : 3 is : 0.6666666666666636

The std deviation of the average path length of the tree of size : 3 is : 2.9976021664879227e-15

The average of the average path length of the tree of size : 4 is : 1.0

The std deviation of the average path length of the tree of size : 4 is : 0.0

The average of the average path length of the tree of size : 5 is : 1.2000000000000226

The std deviation of the average path length of the tree of size : 5 is : 2.2648549702353193e-14

The average of the average path length of the tree of size : 6 is : 1.4358333333333293

The std deviation of the average path length of the tree of size : 6 is : 0.08109921906734542

The average of the average path length of the tree of size : 7 is : 1.5351428571428611

The std deviation of the average path length of the tree of size : 7 is : 0.10550984091833357

The average of the average path length of the tree of size : 8 is : 1.642

The std deviation of the average path length of the tree of size : 8 is : 0.04284857057125704

The average of the average path length of the tree of size : 9 is : 1.777777777777812

The std deviation of the average path length of the tree of size : 9 is : 3.441691376337985e-14

The average of the average path length of the tree of size : 10 is : 1.9207000000000278

The std deviation of the average path length of the tree of size : 10 is : 0.040515552569352624

The average of the average path length of the tree of size : 11 is : 2.042181818181803

The std deviation of the average path length of the tree of size : 11 is : 0.0514824851866313

The average of the average path length of the tree of size : 12 is : 2.148416666666676

The std deviation of the average path length of the tree of size : 12 is : 0.04809127606264238

The average of the average path length of the tree of size : 13 is : 2.2500000000000226

The std deviation of the average path length of the tree of size : 13 is : 0.0537086155529575

The average of the average path length of the tree of size : 14 is : 2.352714285714272

The std deviation of the average path length of the tree of size : 14 is : 0.06761822601781187

The average of the average path length of the tree of size : 15 is : 2.445600000000014

The std deviation of the average path length of the tree of size : 15 is : 0.08733445291903245

The average of the average path length of the tree of size : 16 is : 2.519625

The std deviation of the average path length of the tree of size : 16 is : 0.10096031088997265

The average of the average path length of the tree of size : 17 is : 2.5767647058823497

The std deviation of the average path length of the tree of size : 17 is : 0.09752960689684596

The average of the average path length of the tree of size : 18 is : 2.6413333333333595

The std deviation of the average path length of the tree of size : 18 is : 0.09486937087840404

The average of the average path length of the tree of size : 19 is : 2.6941578947368305

The std deviation of the average path length of the tree of size : 19 is : 0.0829056634402679

The average of the average path length of the tree of size : 20 is : 2.7493999999999947

The std deviation of the average path length of the tree of size : 20 is : 0.06484319547955675

The average of the average path length of the tree of size : 21 is : 2.808047619047618

The std deviation of the average path length of the tree of size : 21 is : 0.05302716114025065

The average of the average path length of the tree of size : 22 is : 2.866454545454565

The std deviation of the average path length of the tree of size : 22 is : 0.040404872466179735

The average of the average path length of the tree of size : 23 is : 2.928086956521751

The std deviation of the average path length of the tree of size : 23 is : 0.040885380843642044

The average of the average path length of the tree of size : 24 is : 2.9898333333333382

The std deviation of the average path length of the tree of size : 24 is : 0.04461377465412317

The average of the average path length of the tree of size : 25 is : 3.0500399999999748

The std deviation of the average path length of the tree of size : 25 is : 0.050342808821121764

The average of the average path length of the tree of size : 26 is : 3.101461538461511

The std deviation of the average path length of the tree of size : 26 is : 0.05255253781473566

The average of the average path length of the tree of size : 27 is : 3.162259259259266

The std deviation of the average path length of the tree of size : 27 is : 0.05679891370510156

The average of the average path length of the tree of size : 28 is : 3.210678571428586

The std deviation of the average path length of the tree of size : 28 is : 0.0546883447456621

The average of the average path length of the tree of size : 29 is : 3.2592413793103434

The std deviation of the average path length of the tree of size : 29 is : 0.059242904721238394

The average of the average path length of the tree of size : 30 is : 3.3088666666666935

The std deviation of the average path length of the tree of size : 30 is : 0.058682232783393684

The average of the average path length of the tree of size : 31 is : 3.353032258064562

The std deviation of the average path length of the tree of size : 31 is : 0.060957193147831205

The average of the average path length of the tree of size : 32 is : 3.40328125

The std deviation of the average path length of the tree of size : 32 is : 0.06513188993064359

The average of the average path length of the tree of size : 33 is : 3.445151515151537

The std deviation of the average path length of the tree of size : 33 is : 0.07150423645517522

The average of the average path length of the tree of size : 34 is : 3.4891764705882427

The std deviation of the average path length of the tree of size : 34 is : 0.07297778967238695

The average of the average path length of the tree of size : 35 is : 3.5371142857142797

The std deviation of the average path length of the tree of size : 35 is : 0.08254423180381287

The average of the average path length of the tree of size : 36 is : 3.5783333333333447

The std deviation of the average path length of the tree of size : 36 is : 0.0882948903069764

The average of the average path length of the tree of size : 37 is : 3.6141081081080983

The std deviation of the average path length of the tree of size : 37 is : 0.09436542123371512

The average of the average path length of the tree of size : 38 is : 3.6467631578947417

The std deviation of the average path length of the tree of size : 38 is : 0.09908190391898286

The average of the average path length of the tree of size : 39 is : 3.677538461538467

The std deviation of the average path length of the tree of size : 39 is : 0.09607081543272791

The average of the average path length of the tree of size : 40 is : 3.714449999999988

The std deviation of the average path length of the tree of size : 40 is : 0.10202915024638798

The average of the average path length of the tree of size : 41 is : 3.7336829268292626

The std deviation of the average path length of the tree of size : 41 is : 0.10114878222278158

The average of the average path length of the tree of size : 42 is : 3.7645238095237956

The std deviation of the average path length of the tree of size : 42 is : 0.0980359853409385

The average of the average path length of the tree of size : 43 is : 3.7927441860464977

The std deviation of the average path length of the tree of size : 43 is : 0.09597146682511719

The average of the average path length of the tree of size : 44 is : 3.8156590909090955

The std deviation of the average path length of the tree of size : 44 is : 0.08923654318997294

The average of the average path length of the tree of size : 45 is : 3.843400000000005

The std deviation of the average path length of the tree of size : 45 is : 0.08560255851720391

The average of the average path length of the tree of size : 46 is : 3.86817391304346

The std deviation of the average path length of the tree of size : 46 is : 0.08046387253052568

The average of the average path length of the tree of size : 47 is : 3.8954468085106364

The std deviation of the average path length of the tree of size : 47 is : 0.075777556814633

The average of the average path length of the tree of size : 48 is : 3.920270833333333

The std deviation of the average path length of the tree of size : 48 is : 0.06876600508144359

The average of the average path length of the tree of size : 49 is : 3.9468367346938504

The std deviation of the average path length of the tree of size : 49 is : 0.06297158611674897

The average of the average path length of the tree of size : 50 is : 3.9730800000000204

The std deviation of the average path length of the tree of size : 50 is : 0.0630183592296719

The average of the average path length of the tree of size : 51 is : 3.999843137254905

The std deviation of the average path length of the tree of size : 51 is : 0.05624388043947234

The average of the average path length of the tree of size : 52 is : 4.027019230769227

The std deviation of the average path length of the tree of size : 52 is : 0.054409739463819405

The average of the average path length of the tree of size : 53 is : 4.054924528301867

The std deviation of the average path length of the tree of size : 53 is : 0.05592383761954765

The average of the average path length of the tree of size : 54 is : 4.082574074074078

The std deviation of the average path length of the tree of size : 54 is : 0.05287456686984348

The average of the average path length of the tree of size : 55 is : 4.107909090909044

The std deviation of the average path length of the tree of size : 55 is : 0.05160170091373021

The average of the average path length of the tree of size : 56 is : 4.134946428571427

The std deviation of the average path length of the tree of size : 56 is : 0.055076335592947195

The average of the average path length of the tree of size : 57 is : 4.1601228070175305

The std deviation of the average path length of the tree of size : 57 is : 0.0529547708543119

The average of the average path length of the tree of size : 58 is : 4.184603448275853

The std deviation of the average path length of the tree of size : 58 is : 0.051928192325027815

The average of the average path length of the tree of size : 59 is : 4.210135593220332

The std deviation of the average path length of the tree of size : 59 is : 0.05306897399751664

The average of the average path length of the tree of size : 60 is : 4.238266666666657

The std deviation of the average path length of the tree of size : 60 is : 0.059147611955175095

The average of the average path length of the tree of size : 61 is : 4.261163934426245

The std deviation of the average path length of the tree of size : 61 is : 0.05524429389108754

The average of the average path length of the tree of size : 62 is : 4.2844193548387395

The std deviation of the average path length of the tree of size : 62 is : 0.054285741473865376

The average of the average path length of the tree of size : 63 is : 4.3118888888889

The std deviation of the average path length of the tree of size : 63 is : 0.056761955807654245

The average of the average path length of the tree of size : 64 is : 4.335234375

The std deviation of the average path length of the tree of size : 64 is : 0.05832118897951542

The average of the average path length of the tree of size : 65 is : 4.357492307692304

The std deviation of the average path length of the tree of size : 65 is : 0.06029676313841758

The average of the average path length of the tree of size : 66 is : 4.382075757575802

The std deviation of the average path length of the tree of size : 66 is : 0.059601352050163724

The average of the average path length of the tree of size : 67 is : 4.399492537313429

The std deviation of the average path length of the tree of size : 67 is : 0.05818454137848262

The average of the average path length of the tree of size : 68 is : 4.428705882352932

The std deviation of the average path length of the tree of size : 68 is : 0.06159096010602516

The average of the average path length of the tree of size : 69 is : 4.449405797101456

The std deviation of the average path length of the tree of size : 69 is : 0.06022592590246052

The average of the average path length of the tree of size : 70 is : 4.4689000000000005

The std deviation of the average path length of the tree of size : 70 is : 0.06147783904690816

The average of the average path length of the tree of size : 71 is : 4.493591549295778

The std deviation of the average path length of the tree of size : 71 is : 0.06061736048349254

The average of the average path length of the tree of size : 72 is : 4.515138888888893

The std deviation of the average path length of the tree of size : 72 is : 0.06627474497112525

The average of the average path length of the tree of size : 73 is : 4.53609589041096

The std deviation of the average path length of the tree of size : 73 is : 0.06372259823044925

The average of the average path length of the tree of size : 74 is : 4.555662162162163

The std deviation of the average path length of the tree of size : 74 is : 0.06406722267418305

The average of the average path length of the tree of size : 75 is : 4.577133333333329

The std deviation of the average path length of the tree of size : 75 is : 0.06659165780252722

The average of the average path length of the tree of size : 76 is : 4.59453947368421

The std deviation of the average path length of the tree of size : 76 is : 0.07040737097642304

The average of the average path length of the tree of size : 77 is : 4.6170779220779075

The std deviation of the average path length of the tree of size : 77 is : 0.07337808871080244

The average of the average path length of the tree of size : 78 is : 4.638051282051278

The std deviation of the average path length of the tree of size : 78 is : 0.07243552983796012

The average of the average path length of the tree of size : 79 is : 4.66010126582276

The std deviation of the average path length of the tree of size : 79 is : 0.07983528950137084

The average of the average path length of the tree of size : 80 is : 4.675600000000007

The std deviation of the average path length of the tree of size : 80 is : 0.07658705830621755

The average of the average path length of the tree of size : 81 is : 4.692111111111114

The std deviation of the average path length of the tree of size : 81 is : 0.07997034868118809

The average of the average path length of the tree of size : 82 is : 4.714121951219503

The std deviation of the average path length of the tree of size : 82 is : 0.08010314216614725

The average of the average path length of the tree of size : 83 is : 4.733132530120446

The std deviation of the average path length of the tree of size : 83 is : 0.08289428056637532

The average of the average path length of the tree of size : 84 is : 4.7517142857142876

The std deviation of the average path length of the tree of size : 84 is : 0.08883159434680325

The average of the average path length of the tree of size : 85 is : 4.771164705882387

The std deviation of the average path length of the tree of size : 85 is : 0.09073601315379112

The average of the average path length of the tree of size : 86 is : 4.781081395348828

The std deviation of the average path length of the tree of size : 86 is : 0.08914978417465927

The average of the average path length of the tree of size : 87 is : 4.800804597701145

The std deviation of the average path length of the tree of size : 87 is : 0.09503536970819892

The average of the average path length of the tree of size : 88 is : 4.823624999999994

The std deviation of the average path length of the tree of size : 88 is : 0.0954028262214125

The average of the average path length of the tree of size : 89 is : 4.834539325842687

The std deviation of the average path length of the tree of size : 89 is : 0.09565812278626964

The average of the average path length of the tree of size : 90 is : 4.851900000000006

The std deviation of the average path length of the tree of size : 90 is : 0.0974012694165258

The average of the average path length of the tree of size : 91 is : 4.869923076923075

The std deviation of the average path length of the tree of size : 91 is : 0.09831722093742454

The average of the average path length of the tree of size : 92 is : 4.879228260869578

The std deviation of the average path length of the tree of size : 92 is : 0.10233721859164305

The average of the average path length of the tree of size : 93 is : 4.89081720430113

The std deviation of the average path length of the tree of size : 93 is : 0.09969909868521838

The average of the average path length of the tree of size : 94 is : 4.904627659574464

The std deviation of the average path length of the tree of size : 94 is : 0.09981522936697006

The average of the average path length of the tree of size : 95 is : 4.918273684210532

The std deviation of the average path length of the tree of size : 95 is : 0.10508738165894833

The average of the average path length of the tree of size : 96 is : 4.931604166666665

The std deviation of the average path length of the tree of size : 96 is : 0.10321736394013371

The average of the average path length of the tree of size : 97 is : 4.944608247422689

The std deviation of the average path length of the tree of size : 97 is : 0.10062503728918828

The average of the average path length of the tree of size : 98 is : 4.9611734693877505

The std deviation of the average path length of the tree of size : 98 is : 0.09912832030192437

The average of the average path length of the tree of size : 99 is : 4.967242424242438

The std deviation of the average path length of the tree of size : 99 is : 0.09941567420648927

The average of the average path length of the tree of size : 100 is : 4.981449999999999

The std deviation of the average path length of the tree of size : 100 is : 0.09898483469703824

The average of the average path length of the tree of size : 101 is : 4.994980198019806

The std deviation of the average path length of the tree of size : 101 is : 0.09857327040466286

The average of the average path length of the tree of size : 102 is : 5.008666666666662

The std deviation of the average path length of the tree of size : 102 is : 0.10064695759459778

The average of the average path length of the tree of size : 103 is : 5.01742718446603

The std deviation of the average path length of the tree of size : 103 is : 0.09528371938949325

The average of the average path length of the tree of size : 104 is : 5.02675961538461

The std deviation of the average path length of the tree of size : 104 is : 0.08943233564557976

The average of the average path length of the tree of size : 105 is : 5.037238095238087

The std deviation of the average path length of the tree of size : 105 is : 0.09015979766861863

The average of the average path length of the tree of size : 106 is : 5.052330188679237

The std deviation of the average path length of the tree of size : 106 is : 0.08753669372502597

The average of the average path length of the tree of size : 107 is : 5.060009345794399

The std deviation of the average path length of the tree of size : 107 is : 0.08355984767783335

The average of the average path length of the tree of size : 108 is : 5.073638888888891

The std deviation of the average path length of the tree of size : 108 is : 0.0830410465670563

The average of the average path length of the tree of size : 109 is : 5.087577981651379

The std deviation of the average path length of the tree of size : 109 is : 0.08577264553257294

The average of the average path length of the tree of size : 110 is : 5.097309090909086

The std deviation of the average path length of the tree of size : 110 is : 0.08152492089706512

The average of the average path length of the tree of size : 111 is : 5.112477477477466

The std deviation of the average path length of the tree of size : 111 is : 0.08298748540318814

The average of the average path length of the tree of size : 112 is : 5.120330357142851

The std deviation of the average path length of the tree of size : 112 is : 0.07592093545715037

The average of the average path length of the tree of size : 113 is : 5.13135398230084

The std deviation of the average path length of the tree of size : 113 is : 0.0749042519318839

The average of the average path length of the tree of size : 114 is : 5.144789473684216

The std deviation of the average path length of the tree of size : 114 is : 0.07339540519154973

The average of the average path length of the tree of size : 115 is : 5.15512173913045

The std deviation of the average path length of the tree of size : 115 is : 0.07495081134305995

The average of the average path length of the tree of size : 116 is : 5.162603448275861

The std deviation of the average path length of the tree of size : 116 is : 0.06501792261825462

The average of the average path length of the tree of size : 117 is : 5.180675213675207

The std deviation of the average path length of the tree of size : 117 is : 0.07200806715709153

The average of the average path length of the tree of size : 118 is : 5.19020338983051

The std deviation of the average path length of the tree of size : 118 is : 0.06635374804293263

The average of the average path length of the tree of size : 119 is : 5.205176470588235

The std deviation of the average path length of the tree of size : 119 is : 0.06552409883178067

The average of the average path length of the tree of size : 120 is : 5.214425000000007

The std deviation of the average path length of the tree of size : 120 is : 0.06507935273785204

The average of the average path length of the tree of size : 121 is : 5.227826446280987

The std deviation of the average path length of the tree of size : 121 is : 0.06114558246766823

The average of the average path length of the tree of size : 122 is : 5.239721311475408

The std deviation of the average path length of the tree of size : 122 is : 0.06278040243893857

The average of the average path length of the tree of size : 123 is : 5.248398373983679

The std deviation of the average path length of the tree of size : 123 is : 0.05866922134487851

The average of the average path length of the tree of size : 124 is : 5.261258064516121

The std deviation of the average path length of the tree of size : 124 is : 0.05805845846537482

The average of the average path length of the tree of size : 125 is : 5.269911999999988

The std deviation of the average path length of the tree of size : 125 is : 0.0559067102949192

The average of the average path length of the tree of size : 126 is : 5.282865079365069

The std deviation of the average path length of the tree of size : 126 is : 0.05663693531098773

The average of the average path length of the tree of size : 127 is : 5.294913385826787

The std deviation of the average path length of the tree of size : 127 is : 0.05319821865533598

The average of the average path length of the tree of size : 128 is : 5.3100234375

The std deviation of the average path length of the tree of size : 128 is : 0.05683426543932212

The average of the average path length of the tree of size : 129 is : 5.320038759689939

The std deviation of the average path length of the tree of size : 129 is : 0.05665588875116595

The average of the average path length of the tree of size : 130 is : 5.331046153846168

The std deviation of the average path length of the tree of size : 130 is : 0.05493121249807695

The average of the average path length of the tree of size : 131 is : 5.344564885496174

The std deviation of the average path length of the tree of size : 131 is : 0.05613202738697706

The average of the average path length of the tree of size : 132 is : 5.354174242424257

The std deviation of the average path length of the tree of size : 132 is : 0.05586421322367359

The average of the average path length of the tree of size : 133 is : 5.367015037593994

The std deviation of the average path length of the tree of size : 133 is : 0.05363808331899825

The average of the average path length of the tree of size : 134 is : 5.377880597014909

The std deviation of the average path length of the tree of size : 134 is : 0.05474149135229473

The average of the average path length of the tree of size : 135 is : 5.389622222222228

The std deviation of the average path length of the tree of size : 135 is : 0.05460932403541479

The average of the average path length of the tree of size : 136 is : 5.401507352941174

The std deviation of the average path length of the tree of size : 136 is : 0.05852727558546324

The average of the average path length of the tree of size : 137 is : 5.412635036496349

The std deviation of the average path length of the tree of size : 137 is : 0.057885116545271176

The average of the average path length of the tree of size : 138 is : 5.423710144927515

The std deviation of the average path length of the tree of size : 138 is : 0.05902627227900848

The average of the average path length of the tree of size : 139 is : 5.436625899280559

The std deviation of the average path length of the tree of size : 139 is : 0.05710686008044017

The average of the average path length of the tree of size : 140 is : 5.443064285714287

The std deviation of the average path length of the tree of size : 140 is : 0.055094612037024114

The average of the average path length of the tree of size : 141 is : 5.4573475177304935

The std deviation of the average path length of the tree of size : 141 is : 0.055238987200675625

The average of the average path length of the tree of size : 142 is : 5.467978873239435

The std deviation of the average path length of the tree of size : 142 is : 0.05677462473925203

The average of the average path length of the tree of size : 143 is : 5.483741258741246

The std deviation of the average path length of the tree of size : 143 is : 0.059613231304547876

The average of the average path length of the tree of size : 144 is : 5.491041666666664

The std deviation of the average path length of the tree of size : 144 is : 0.061163132845239936

The average of the average path length of the tree of size : 145 is : 5.499337931034483

The std deviation of the average path length of the tree of size : 145 is : 0.05795762279828308

The average of the average path length of the tree of size : 146 is : 5.5089315068493105

The std deviation of the average path length of the tree of size : 146 is : 0.05730612963637744

The average of the average path length of the tree of size : 147 is : 5.52138775510204

The std deviation of the average path length of the tree of size : 147 is : 0.05715794423443175

The average of the average path length of the tree of size : 148 is : 5.52972972972974

The std deviation of the average path length of the tree of size : 148 is : 0.057313868078054796

The average of the average path length of the tree of size : 149 is : 5.541852348993288

The std deviation of the average path length of the tree of size : 149 is : 0.057055784555436855

The average of the average path length of the tree of size : 150 is : 5.55100666666667

The std deviation of the average path length of the tree of size : 150 is : 0.057318292213064295

The average of the average path length of the tree of size : 151 is : 5.560596026490071

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The std deviation of the average path length of the tree of size : 599 is : 0.08499851561515119

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The std deviation of the average path length of the tree of size : 600 is : 0.07824407948848268

The average of the average path length of the tree of size : 601 is : 7.582178036605658

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The std deviation of the average path length of the tree of size : 743 is : 0.05639353454586571

The average of the average path length of the tree of size : 744 is : 7.9011182795699

The std deviation of the average path length of the tree of size : 744 is : 0.06090645945298923

The average of the average path length of the tree of size : 745 is : 7.901477852348983

The std deviation of the average path length of the tree of size : 745 is : 0.058259360229639595

The average of the average path length of the tree of size : 746 is : 7.905605898123327

The std deviation of the average path length of the tree of size : 746 is : 0.05699717521337521

The average of the average path length of the tree of size : 747 is : 7.908934404283805

The std deviation of the average path length of the tree of size : 747 is : 0.0586270392471126

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The std deviation of the average path length of the tree of size : 748 is : 0.05932799063852435

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The average of the average path length of the tree of size : 750 is : 7.9131973333333265

The std deviation of the average path length of the tree of size : 750 is : 0.05833447764210956

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The std deviation of the average path length of the tree of size : 751 is : 0.05631750059210469

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The std deviation of the average path length of the tree of size : 887 is : 0.06669499754965891

The average of the average path length of the tree of size : 888 is : 8.18536148648649

The std deviation of the average path length of the tree of size : 888 is : 0.06572074193688723

The average of the average path length of the tree of size : 889 is : 8.185449943757067

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The std deviation of the average path length of the tree of size : 890 is : 0.0626708918922443

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The std deviation of the average path length of the tree of size : 891 is : 0.06884280831245725

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The average of the average path length of the tree of size : 1032 is : 8.436140503875972

The std deviation of the average path length of the tree of size : 1032 is : 0.0902562865419546

The average of the average path length of the tree of size : 1033 is : 8.435449177153926

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The std deviation of the average path length of the tree of size : 1175 is : 0.10539703809201409

The average of the average path length of the tree of size : 1176 is : 8.617988945578237

The std deviation of the average path length of the tree of size : 1176 is : 0.10072299182949544

The average of the average path length of the tree of size : 1177 is : 8.622263381478328

The std deviation of the average path length of the tree of size : 1177 is : 0.10637683106661383

The average of the average path length of the tree of size : 1178 is : 8.625849745331074

The std deviation of the average path length of the tree of size : 1178 is : 0.1119944340071336

The average of the average path length of the tree of size : 1179 is : 8.625379983036469

The std deviation of the average path length of the tree of size : 1179 is : 0.10688628482794879

The average of the average path length of the tree of size : 1180 is : 8.627175423728803

The std deviation of the average path length of the tree of size : 1180 is : 0.10550423553869488

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The average of the average path length of the tree of size : 1182 is : 8.629364636209809

The std deviation of the average path length of the tree of size : 1182 is : 0.10826393193779801

The average of the average path length of the tree of size : 1183 is : 8.624431952662734

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The std deviation of the average path length of the tree of size : 1320 is : 0.09314159262019552

The average of the average path length of the tree of size : 1321 is : 8.767944738834213

The std deviation of the average path length of the tree of size : 1321 is : 0.09631413991958591

The average of the average path length of the tree of size : 1322 is : 8.765794251134649

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The average of the average path length of the tree of size : 1323 is : 8.768650793650801

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The std deviation of the average path length of the tree of size : 1464 is : 0.06578092266774323

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The std deviation of the average path length of the tree of size : 1467 is : 0.068646596693732

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The std deviation of the average path length of the tree of size : 1750 is : 0.059007144862434385

The average of the average path length of the tree of size : 1751 is : 9.175781267846958

The std deviation of the average path length of the tree of size : 1751 is : 0.05609162492216527

The average of the average path length of the tree of size : 1752 is : 9.181587328767117

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The std deviation of the average path length of the tree of size : 2042 is : 0.06639980086560925

The average of the average path length of the tree of size : 2043 is : 9.429594224180121

The std deviation of the average path length of the tree of size : 2043 is : 0.06913493781986028

The average of the average path length of the tree of size : 2044 is : 9.425347358121343

The std deviation of the average path length of the tree of size : 2044 is : 0.06609705989744107

The average of the average path length of the tree of size : 2045 is : 9.430009779951096

The std deviation of the average path length of the tree of size : 2045 is : 0.0642266840747091

The average of the average path length of the tree of size : 2046 is : 9.426118279569856

The std deviation of the average path length of the tree of size : 2046 is : 0.06649946883814964

The average of the average path length of the tree of size : 2047 is : 9.430979970688831

The std deviation of the average path length of the tree of size : 2047 is : 0.06846604237451613

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The std deviation of the average path length of the tree of size : 2050 is : 0.06758779455195571

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The average of the average path length of the tree of size : 2619 is : 9.816388316151192

The std deviation of the average path length of the tree of size : 2619 is : 0.10081251921830071

The average of the average path length of the tree of size : 2620 is : 9.822188931297712

The std deviation of the average path length of the tree of size : 2620 is : 0.10143600433953838

The average of the average path length of the tree of size : 2621 is : 9.822449065242285

The std deviation of the average path length of the tree of size : 2621 is : 0.10510169493028576

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The average of the average path length of the tree of size : 2762 is : 9.892972121650962

The std deviation of the average path length of the tree of size : 2762 is : 0.10709978902468724

The average of the average path length of the tree of size : 2763 is : 9.89728447339848

The std deviation of the average path length of the tree of size : 2763 is : 0.11275480943466759

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The std deviation of the average path length of the tree of size : 2764 is : 0.10544758460321461

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The std deviation of the average path length of the tree of size : 2906 is : 0.10451483093410366

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The std deviation of the average path length of the tree of size : 3050 is : 0.09491277959075146

The average of the average path length of the tree of size : 3051 is : 10.021131760078669

The std deviation of the average path length of the tree of size : 3051 is : 0.10000159167173318

The average of the average path length of the tree of size : 3052 is : 10.014994102228046

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The std deviation of the average path length of the tree of size : 3623 is : 0.058509485526578475

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The std deviation of the average path length of the tree of size : 3624 is : 0.0576590748661543

The average of the average path length of the tree of size : 3625 is : 10.255389793103456

The std deviation of the average path length of the tree of size : 3625 is : 0.06116389696556509

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The std deviation of the average path length of the tree of size : 3626 is : 0.06085654222029247

The average of the average path length of the tree of size : 3627 is : 10.255032258064507

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The average of the average path length of the tree of size : 3910 is : 10.371996163682851

The std deviation of the average path length of the tree of size : 3910 is : 0.05459474642086595

The average of the average path length of the tree of size : 3911 is : 10.373918946560986

The std deviation of the average path length of the tree of size : 3911 is : 0.05618494888822371

The average of the average path length of the tree of size : 3912 is : 10.37584125766872

The std deviation of the average path length of the tree of size : 3912 is : 0.059090193372500696

The average of the average path length of the tree of size : 3913 is : 10.374913621262449

The std deviation of the average path length of the tree of size : 3913 is : 0.05792544425222224

The average of the average path length of the tree of size : 3914 is : 10.37493331630048

The std deviation of the average path length of the tree of size : 3914 is : 0.056060746690462786

The average of the average path length of the tree of size : 3915 is : 10.375664878671769

The std deviation of the average path length of the tree of size : 3915 is : 0.05383545675736474

The average of the average path length of the tree of size : 3916 is : 10.37776251276813

The std deviation of the average path length of the tree of size : 3916 is : 0.05791938170987798

The average of the average path length of the tree of size : 3917 is : 10.375995404646398

The std deviation of the average path length of the tree of size : 3917 is : 0.06043640654446861

The average of the average path length of the tree of size : 3918 is : 10.375340735068923

The std deviation of the average path length of the tree of size : 3918 is : 0.05774619775837955

The average of the average path length of the tree of size : 3919 is : 10.37685506506761

The std deviation of the average path length of the tree of size : 3919 is : 0.0563109536262857

The average of the average path length of the tree of size : 3920 is : 10.378149999999996

The std deviation of the average path length of the tree of size : 3920 is : 0.05995162005474642

The average of the average path length of the tree of size : 3921 is : 10.379206579954104

The std deviation of the average path length of the tree of size : 3921 is : 0.05723051310524756

The average of the average path length of the tree of size : 3922 is : 10.378402600713926

The std deviation of the average path length of the tree of size : 3922 is : 0.05901758859578348

The average of the average path length of the tree of size : 3923 is : 10.377030588835066

The std deviation of the average path length of the tree of size : 3923 is : 0.05837082761977528

The average of the average path length of the tree of size : 3924 is : 10.379333333333339

The std deviation of the average path length of the tree of size : 3924 is : 0.05541940244526648

The average of the average path length of the tree of size : 3925 is : 10.378735286624206

The std deviation of the average path length of the tree of size : 3925 is : 0.058387742418254146

The average of the average path length of the tree of size : 3926 is : 10.385460010188481

The std deviation of the average path length of the tree of size : 3926 is : 0.05791105686472957

The average of the average path length of the tree of size : 3927 is : 10.379092691622118

The std deviation of the average path length of the tree of size : 3927 is : 0.05541628212191935

The average of the average path length of the tree of size : 3928 is : 10.382844195519354

The std deviation of the average path length of the tree of size : 3928 is : 0.05823484755301319

The average of the average path length of the tree of size : 3929 is : 10.382957495545934

The std deviation of the average path length of the tree of size : 3929 is : 0.05462678146409426

The average of the average path length of the tree of size : 3930 is : 10.384031552162856

The std deviation of the average path length of the tree of size : 3930 is : 0.05848369795424094

The average of the average path length of the tree of size : 3931 is : 10.379982701602637

The std deviation of the average path length of the tree of size : 3931 is : 0.052960986325237436

The average of the average path length of the tree of size : 3932 is : 10.3832421159715

The std deviation of the average path length of the tree of size : 3932 is : 0.0582863063457356

The average of the average path length of the tree of size : 3933 is : 10.380495041952695

The std deviation of the average path length of the tree of size : 3933 is : 0.05470971079576438

The average of the average path length of the tree of size : 3934 is : 10.382905185561766

The std deviation of the average path length of the tree of size : 3934 is : 0.05575169993668739

The average of the average path length of the tree of size : 3935 is : 10.384253113087672

The std deviation of the average path length of the tree of size : 3935 is : 0.056666908141260075

The average of the average path length of the tree of size : 3936 is : 10.38439202235773

The std deviation of the average path length of the tree of size : 3936 is : 0.058809636293190415

The average of the average path length of the tree of size : 3937 is : 10.384984251968497

The std deviation of the average path length of the tree of size : 3937 is : 0.0564573749126866

The average of the average path length of the tree of size : 3938 is : 10.384473336719147

The std deviation of the average path length of the tree of size : 3938 is : 0.05930733441713521

The average of the average path length of the tree of size : 3939 is : 10.383776339172384

The std deviation of the average path length of the tree of size : 3939 is : 0.05700207507654245

The average of the average path length of the tree of size : 3940 is : 10.382793147208107

The std deviation of the average path length of the tree of size : 3940 is : 0.054781162259967736

The average of the average path length of the tree of size : 3941 is : 10.384785587414365

The std deviation of the average path length of the tree of size : 3941 is : 0.05419685699759282

The average of the average path length of the tree of size : 3942 is : 10.386156773211574

The std deviation of the average path length of the tree of size : 3942 is : 0.05807601208668973

The average of the average path length of the tree of size : 3943 is : 10.385777073294443

The std deviation of the average path length of the tree of size : 3943 is : 0.057436571629913245

The average of the average path length of the tree of size : 3944 is : 10.38665136916836

The std deviation of the average path length of the tree of size : 3944 is : 0.056438541849001336

The average of the average path length of the tree of size : 3945 is : 10.388290747781982

The std deviation of the average path length of the tree of size : 3945 is : 0.05660413973591356

The average of the average path length of the tree of size : 3946 is : 10.388303852002021

The std deviation of the average path length of the tree of size : 3946 is : 0.059234829775964025

The average of the average path length of the tree of size : 3947 is : 10.386497086394733

The std deviation of the average path length of the tree of size : 3947 is : 0.056649130694023664

The average of the average path length of the tree of size : 3948 is : 10.389786220871331

The std deviation of the average path length of the tree of size : 3948 is : 0.057085112137283185

The average of the average path length of the tree of size : 3949 is : 10.38779564446694

The std deviation of the average path length of the tree of size : 3949 is : 0.05653577025314995

The average of the average path length of the tree of size : 3950 is : 10.390919240506317

The std deviation of the average path length of the tree of size : 3950 is : 0.05729577826187156

The average of the average path length of the tree of size : 3951 is : 10.391047835990891

The std deviation of the average path length of the tree of size : 3951 is : 0.05756448759252263

The average of the average path length of the tree of size : 3952 is : 10.392334261133602

The std deviation of the average path length of the tree of size : 3952 is : 0.0578917618042188

The average of the average path length of the tree of size : 3953 is : 10.390980774095633

The std deviation of the average path length of the tree of size : 3953 is : 0.05918910399230567

The average of the average path length of the tree of size : 3954 is : 10.39315907941324

The std deviation of the average path length of the tree of size : 3954 is : 0.05938377337419447

The average of the average path length of the tree of size : 3955 is : 10.391224778761044

The std deviation of the average path length of the tree of size : 3955 is : 0.05586226116807323

The average of the average path length of the tree of size : 3956 is : 10.392266430738113

The std deviation of the average path length of the tree of size : 3956 is : 0.05788990478708219

The average of the average path length of the tree of size : 3957 is : 10.390843062926466

The std deviation of the average path length of the tree of size : 3957 is : 0.057693364858109615

The average of the average path length of the tree of size : 3958 is : 10.391059373420918

The std deviation of the average path length of the tree of size : 3958 is : 0.055860120134741044

The average of the average path length of the tree of size : 3959 is : 10.395654458196535

The std deviation of the average path length of the tree of size : 3959 is : 0.057917288906815134

The average of the average path length of the tree of size : 3960 is : 10.392760353535358

The std deviation of the average path length of the tree of size : 3960 is : 0.05663027031999912

The average of the average path length of the tree of size : 3961 is : 10.393963645544067

The std deviation of the average path length of the tree of size : 3961 is : 0.05656011666274639

The average of the average path length of the tree of size : 3962 is : 10.395521453811202

The std deviation of the average path length of the tree of size : 3962 is : 0.05707872999744582

The average of the average path length of the tree of size : 3963 is : 10.391967448902344

The std deviation of the average path length of the tree of size : 3963 is : 0.058044398410264327

The average of the average path length of the tree of size : 3964 is : 10.395076942482332

The std deviation of the average path length of the tree of size : 3964 is : 0.05659303918247425