Dimension 3 up to 32k

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 32768 5 3

Result 0 (32768, dim: 3): 668.604492

Result 1 (32768, dim: 3): 668.241333

Result 2 (32768, dim: 3): 669.424927

Result 3 (32768, dim: 3): 667.929871

Result 4 (32768, dim: 3): 668.679749

Average: 668.576050 (32768, dim: 3, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 16384 5 3

Result 0 (16384, dim: 3): 422.175446

Result 1 (16384, dim: 3): 422.216278

Result 2 (16384, dim: 3): 423.355682

Result 3 (16384, dim: 3): 422.939545

Result 4 (16384, dim: 3): 421.506989

Average: 422.438812 (16384, dim: 3, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 8192 5 3

Result 0 (8192, dim: 3): 265.936768

Result 1 (8192, dim: 3): 267.351501

Result 2 (8192, dim: 3): 266.868958

Result 3 (8192, dim: 3): 267.716888

Result 4 (8192, dim: 3): 267.883881

Average: 267.151611 (8192, dim: 3, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 4096 5 3

Result 0 (4096, dim: 3): 170.635284

Result 1 (4096, dim: 3): 168.759491

Result 2 (4096, dim: 3): 169.321381

Result 3 (4096, dim: 3): 169.340393

Result 4 (4096, dim: 3): 169.399521

Average: 169.491211 (4096, dim: 3, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 2048 5 3

Result 0 (2048, dim: 3): 107.453102

Result 1 (2048, dim: 3): 107.985748

Result 2 (2048, dim: 3): 107.041656

Result 3 (2048, dim: 3): 107.170280

Result 4 (2048, dim: 3): 107.306458

Average: 107.391457 (2048, dim: 3, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 1024 5 3

Result 0 (1024, dim: 3): 68.700356

Result 1 (1024, dim: 3): 69.263847

Result 2 (1024, dim: 3): 67.418495

Result 3 (1024, dim: 3): 68.023972

Result 4 (1024, dim: 3): 68.615501

Average: 68.404434 (1024, dim: 3, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 512 5 3

Result 0 (512, dim: 3): 43.647331

Result 1 (512, dim: 3): 42.866261

Result 2 (512, dim: 3): 43.494469

Result 3 (512, dim: 3): 43.507668

Result 4 (512, dim: 3): 43.139454

Average: 43.331032 (512, dim: 3, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 256 5 3

Result 0 (256, dim: 3): 27.135233

Result 1 (256, dim: 3): 27.527802

Result 2 (256, dim: 3): 27.465424

Result 3 (256, dim: 3): 28.463821

Result 4 (256, dim: 3): 26.722185

Average: 27.462894 (256, dim: 3, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 128 5 3

Result 0 (128, dim: 3): 17.716808

Result 1 (128, dim: 3): 18.349068

Result 2 (128, dim: 3): 18.030493

Result 3 (128, dim: 3): 17.198538

Result 4 (128, dim: 3): 17.283579

Average: 17.715696 (128, dim: 3, trials: 5)

Dimension 2 (up to 32k)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 128 5 2

Result 0 (128, dim: 2): 7.372292

Result 1 (128, dim: 2): 7.532019

Result 2 (128, dim: 2): 7.835712

Result 3 (128, dim: 2): 7.902040

Result 4 (128, dim: 2): 7.860309

Average: 7.700475 (128, dim: 2, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 256 5 2

Result 0 (256, dim: 2): 10.741309

Result 1 (256, dim: 2): 10.861650

Result 2 (256, dim: 2): 10.632935

Result 3 (256, dim: 2): 10.976606

Result 4 (256, dim: 2): 10.862462

Average: 10.814993 (256, dim: 2, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 512 5 2

Result 0 (512, dim: 2): 15.041619

Result 1 (512, dim: 2): 14.581220

Result 2 (512, dim: 2): 14.875709

Result 3 (512, dim: 2): 15.182342

Result 4 (512, dim: 2): 14.909690

Average: 14.918116 (512, dim: 2, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 1024 5 2

Result 0 (1024, dim: 2): 20.829311

Result 1 (1024, dim: 2): 21.425711

Result 2 (1024, dim: 2): 21.361273

Result 3 (1024, dim: 2): 20.923317

Result 4 (1024, dim: 2): 21.239540

Average: 21.155830 (1024, dim: 2, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 2048 5 2

Result 0 (2048, dim: 2): 29.719263

Result 1 (2048, dim: 2): 29.539122

Result 2 (2048, dim: 2): 29.508966

Result 3 (2048, dim: 2): 29.801991

Result 4 (2048, dim: 2): 29.764553

Average: 29.666779 (2048, dim: 2, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 4096 5 2

Result 0 (4096, dim: 2): 41.632549

Result 1 (4096, dim: 2): 41.679489

Result 2 (4096, dim: 2): 41.879021

Result 3 (4096, dim: 2): 41.495152

Result 4 (4096, dim: 2): 41.869267

Average: 41.711098 (4096, dim: 2, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 8192 5 2

Result 0 (8192, dim: 2): 59.235222

Result 1 (8192, dim: 2): 58.710911

Result 2 (8192, dim: 2): 58.690563

Result 3 (8192, dim: 2): 58.924042

Result 4 (8192, dim: 2): 59.321518

Average: 58.976452 (8192, dim: 2, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 16384 5 2

Result 0 (16384, dim: 2): 83.155586

Result 1 (16384, dim: 2): 83.120804

Result 2 (16384, dim: 2): 83.567406

Result 3 (16384, dim: 2): 82.802063

Result 4 (16384, dim: 2): 82.943512

Average: 83.117874 (16384, dim: 2, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 32768 5 2

Result 0 (32768, dim: 2): 117.291527

Result 1 (32768, dim: 2): 117.332153

Result 2 (32768, dim: 2): 117.605553

Result 3 (32768, dim: 2): 117.829636

Result 4 (32768, dim: 2): 117.544014

Average: 117.520584 (32768, dim: 2, trials: 5)

Dimension 4 (Up to 32k)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 128 5 4

Result 0 (128, dim: 4): 28.381056

Result 1 (128, dim: 4): 27.986502

Result 2 (128, dim: 4): 28.191401

Result 3 (128, dim: 4): 28.972589

Result 4 (128, dim: 4): 29.046711

Average: 28.515652 (128, dim: 4, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 256 5 4

Result 0 (256, dim: 4): 46.536758

Result 1 (256, dim: 4): 46.697533

Result 2 (256, dim: 4): 46.997952

Result 3 (256, dim: 4): 48.396877

Result 4 (256, dim: 4): 47.260437

Average: 47.177910 (256, dim: 4, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 512 5 4

Result 0 (512, dim: 4): 77.606018

Result 1 (512, dim: 4): 79.738083

Result 2 (512, dim: 4): 77.927765

Result 3 (512, dim: 4): 78.451874

Result 4 (512, dim: 4): 78.767242

Average: 78.498199 (512, dim: 4, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 1024 5 4

Result 0 (1024, dim: 4): 130.864807

Result 1 (1024, dim: 4): 131.627289

Result 2 (1024, dim: 4): 130.734695

Result 3 (1024, dim: 4): 128.085190

Result 4 (1024, dim: 4): 128.952774

Average: 130.052948 (1024, dim: 4, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 2048 5 4

Result 0 (2048, dim: 4): 218.291153

Result 1 (2048, dim: 4): 215.597931

Result 2 (2048, dim: 4): 217.728378

Result 3 (2048, dim: 4): 215.035965

Result 4 (2048, dim: 4): 216.732346

Average: 216.677155 (2048, dim: 4, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 4096 5 4

Result 0 (4096, dim: 4): 363.194977

Result 1 (4096, dim: 4): 360.669830

Result 2 (4096, dim: 4): 361.546600

Result 3 (4096, dim: 4): 359.465332

Result 4 (4096, dim: 4): 362.168396

Average: 361.409027 (4096, dim: 4, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 8192 5 4

Result 0 (8192, dim: 4): 604.180786

Result 1 (8192, dim: 4): 604.525879

Result 2 (8192, dim: 4): 606.829773

Result 3 (8192, dim: 4): 604.454651

Result 4 (8192, dim: 4): 601.909729

Average: 604.380127 (8192, dim: 4, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 16384 5 4

Result 0 (16384, dim: 4): 1008.218018

Result 1 (16384, dim: 4): 1007.285950

Result 2 (16384, dim: 4): 1010.054016

Result 3 (16384, dim: 4): 1006.316772

Result 4 (16384, dim: 4): 1006.850464

Average: 1007.744995 (16384, dim: 4, trials: 5)

PS C:\Users\achol\OneDrive\Harvard\Sophmore\Spring\A. CS124\CS124-P1> ./randmst 0 32768 5 4

Result 0 (32768, dim: 4): 1686.822754

Result 1 (32768, dim: 4): 1685.858032

Result 2 (32768, dim: 4): 1687.058838

Result 3 (32768, dim: 4): 1689.959229

Result 4 (32768, dim: 4): 1685.719482

Average: 1687.083618 (32768, dim: 4, trials: 5)