

## SIMULATE QUICK SORT - PROJECT OUTPUT - COS 364

ARRAY SIZE: 10

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N: 10

AVERAGE NUMBER OF EXCHANGES: 0.8960000000000001

POINT: (10, 0.8960000000000001)

ARRAY SIZE: 50

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N: 50

AVERAGE NUMBER OF EXCHANGES: 2.3312

POINT: (50, 2.3312)

ARRAY SIZE: 100

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N: 100

AVERAGE NUMBER OF EXCHANGES: 3.0318

POINT: (100, 3.0318)

ARRAY SIZE: 500

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N: 500

AVERAGE NUMBER OF EXCHANGES: 4.63324

POINT: (500, 4.63324)

ARRAY SIZE: 1000

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N: 1000

AVERAGE NUMBER OF EXCHANGES: 5.36864

POINT: (1000, 5.36864)

ARRAY SIZE: 5000

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N: 5000

AVERAGE NUMBER OF EXCHANGES: 6.932724

POINT: (5000, 6.932724)

ARRAY SIZE: 10000

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N: 10000

AVERAGE NUMBER OF EXCHANGES: 7.5800339999999995

POINT: (10000, 7.5800339999999995)

ARRAY SIZE: 25000

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N: 25000

AVERAGE NUMBER OF EXCHANGES: 8.42302

POINT: (25000, 8.42302)

ARRAY SIZE: 50000

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N: 50000

AVERAGE NUMBER OF EXCHANGES: 9.2099388

POINT: (50000, 9.2099388)

ARRAY SIZE: 75000

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N: 75000

AVERAGE NUMBER OF EXCHANGES: 9.580837333333333

POINT: (75000, 9.580837333333333)

ARRAY SIZE: 100000

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N: 100000

AVERAGE NUMBER OF EXCHANGES: 9.885913

POINT: (100000, 9.885913)

ARRAY SIZE: 200000

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N: 200000

AVERAGE NUMBER OF EXCHANGES: 10.537528700000001

POINT: (200000, 10.537528700000001)

ARRAY SIZE: 300000

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N: 300000

AVERAGE NUMBER OF EXCHANGES: 10.958582466666668

POINT: (300000, 10.958582466666668)

ARRAY SIZE: 400000

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N: 400000

AVERAGE NUMBER OF EXCHANGES: 11.18772815

POINT: (400000, 11.18772815)

ARRAY SIZE: 500000

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N: 500000

AVERAGE NUMBER OF EXCHANGES: 11.3931204

POINT: (500000, 11.3931204)