estebans-mbp-2:report esteban$ python experiment\_2\_b.py

iterations: 100 max\_log\_likelihood: -1642.645732193760523 time: 15.032229569973424

iterations: 15 total\_mahalanobis\_distance\_to\_cluster\_centers: 510.821022245 time: 1.9269392578862607

iterations: 12 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.1425182030070573

iterations: 97 max\_log\_likelihood: -1609.721146771486701 time: 14.643783094012178

iterations: 13 total\_mahalanobis\_distance\_to\_cluster\_centers: 508.105607719 time: 1.6483146889368072

iterations: 8 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.10406140692066401

iterations: 100 max\_log\_likelihood: -1609.721147358277221 time: 15.045532332966104

iterations: 7 total\_mahalanobis\_distance\_to\_cluster\_centers: 514.110677366 time: 0.8596006070729345

iterations: 8 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.09608221496455371

iterations: 100 max\_log\_likelihood: -1609.721147806105591 time: 15.063558166963048

iterations: 16 total\_mahalanobis\_distance\_to\_cluster\_centers: 510.978973778 time: 2.0166502229403704

iterations: 11 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.12430794595275074

iterations: 100 max\_log\_likelihood: -1609.721147358026656 time: 14.774475116981193

iterations: 9 total\_mahalanobis\_distance\_to\_cluster\_centers: 508.608056141 time: 1.137035456020385

iterations: 11 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.12955083593260497

iterations: 82 max\_log\_likelihood: -1609.721147356209713 time: 12.25929181696847

iterations: 34 total\_mahalanobis\_distance\_to\_cluster\_centers: 511.722356482 time: 4.2875449259299785

iterations: 8 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.091942292987369

iterations: 86 max\_log\_likelihood: -1609.721146730347755 time: 12.969769374001771

iterations: 13 total\_mahalanobis\_distance\_to\_cluster\_centers: 507.577606638 time: 1.6272679649991915

iterations: 7 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.08014723099768162

iterations: 93 max\_log\_likelihood: -1609.721146786941290 time: 13.969374906970188

iterations: 4 total\_mahalanobis\_distance\_to\_cluster\_centers: 516.030573245 time: 0.492965021985583

iterations: 7 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.08533020399045199

iterations: 91 max\_log\_likelihood: -1609.721146795877075 time: 13.511497158091515

iterations: 31 total\_mahalanobis\_distance\_to\_cluster\_centers: 511.798190936 time: 3.9093683490063995

iterations: 8 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.09329797606915236

iterations: 97 max\_log\_likelihood: -1609.721146790799366 time: 14.579739714972675

iterations: 4 total\_mahalanobis\_distance\_to\_cluster\_centers: 514.444731868 time: 0.5031480899779126

iterations: 7 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.08229386201128364

iterations: 92 max\_log\_likelihood: -1609.721146525132326 time: 14.070454590953887

iterations: 7 total\_mahalanobis\_distance\_to\_cluster\_centers: 509.209240193 time: 0.8928762919967994

iterations: 8 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.0916313350899145

iterations: 94 max\_log\_likelihood: -1609.721147356184929 time: 14.586647758027539

iterations: 37 total\_mahalanobis\_distance\_to\_cluster\_centers: 511.356834232 time: 4.70862514199689

iterations: 8 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.09366843802854419

iterations: 100 max\_log\_likelihood: -1637.405783770084781 time: 14.8729751650244

iterations: 8 total\_mahalanobis\_distance\_to\_cluster\_centers: 510.401935695 time: 0.9893309730105102

iterations: 5 total\_euclidian\_distance\_to\_cluster\_centers 854.5643847708382 time 0.06201972102280706

iterations: 100 max\_log\_likelihood: -1644.507479837910296 time: 14.965881169075146

iterations: 12 total\_mahalanobis\_distance\_to\_cluster\_centers: 510.186908625 time: 1.4672959559829906

iterations: 5 total\_euclidian\_distance\_to\_cluster\_centers 854.5643847708382 time 0.0626234789378941

iterations: 93 max\_log\_likelihood: -1609.721147356910478 time: 13.758780814008787

iterations: 5 total\_mahalanobis\_distance\_to\_cluster\_centers: 508.97842393 time: 0.6291654770029709

iterations: 9 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.1002427819184959

iterations: 94 max\_log\_likelihood: -1609.721146778588036 time: 14.526447708019987

iterations: 19 total\_mahalanobis\_distance\_to\_cluster\_centers: 507.577606638 time: 2.4305424080230296

iterations: 7 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.08379299298394471

iterations: 100 max\_log\_likelihood: -1609.721150522797188 time: 14.815095270983875

iterations: 9 total\_mahalanobis\_distance\_to\_cluster\_centers: 509.535484338 time: 1.1259057590505108

iterations: 12 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.14511157397646457

iterations: 100 max\_log\_likelihood: -1609.721148059289817 time: 14.599409140064381

iterations: 23 total\_mahalanobis\_distance\_to\_cluster\_centers: 513.107498175 time: 2.7982265419559553

iterations: 14 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.17024948098696768

iterations: 91 max\_log\_likelihood: -1609.721146791667479 time: 13.589760410017334

iterations: 10 total\_mahalanobis\_distance\_to\_cluster\_centers: 510.133809269 time: 1.2333061120007187

iterations: 7 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.0827846348984167

iterations: 85 max\_log\_likelihood: -1609.721147356190386 time: 12.571548452950083

iterations: 24 total\_mahalanobis\_distance\_to\_cluster\_centers: 509.693367384 time: 3.0373440460534766

iterations: 11 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.12637957697734237

iterations: 100 max\_log\_likelihood: -1609.721146534136096 time: 14.673851593048312

iterations: 10 total\_mahalanobis\_distance\_to\_cluster\_centers: 511.95499483 time: 1.2210762589238584

iterations: 12 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.13905407499987632

iterations: 89 max\_log\_likelihood: -1609.721146806929482 time: 13.085633315960877

iterations: 10 total\_mahalanobis\_distance\_to\_cluster\_centers: 511.548967595 time: 1.2365069640800357

iterations: 9 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.10380125709343702

iterations: 100 max\_log\_likelihood: -1609.721146498112375 time: 14.645726031041704

iterations: 13 total\_mahalanobis\_distance\_to\_cluster\_centers: 511.95499483 time: 1.5775841870345175

iterations: 11 total\_euclidian\_distance\_to\_cluster\_centers 803.8745374912135 time 0.1286555150290951

iterations: 92 max\_log\_likelihood: -1609.721146663322770 time: 13.378427130985074

iterations: 34 total\_mahalanobis\_distance\_to\_cluster\_centers: 507.891664793 time: 4.121725893928669

iterations: 9 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.10148836590815336

iterations: 100 max\_log\_likelihood: -1609.721147394276841 time: 14.611338048009202

iterations: 13 total\_mahalanobis\_distance\_to\_cluster\_centers: 505.677611974 time: 1.5735076509881765

iterations: 9 total\_euclidian\_distance\_to\_cluster\_centers 854.5643847708382 time 0.1044240240007639

iterations: 100 max\_log\_likelihood: -1609.721146493257720 time: 14.554714969941415

iterations: 8 total\_mahalanobis\_distance\_to\_cluster\_centers: 512.572145455 time: 0.9601191120455042

iterations: 15 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.17053203901741654

iterations: 98 max\_log\_likelihood: -1609.721147016403620 time: 14.38156110199634

iterations: 18 total\_mahalanobis\_distance\_to\_cluster\_centers: 506.982125797 time: 2.2291245060041547

iterations: 9 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.11075013992376626

iterations: 87 max\_log\_likelihood: -1609.721146631053216 time: 12.958832146017812

iterations: 30 total\_mahalanobis\_distance\_to\_cluster\_centers: 511.072694757 time: 3.921328795957379

iterations: 11 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.13256084499880672

iterations: 92 max\_log\_likelihood: -1609.721146786247800 time: 14.048531387001276

iterations: 15 total\_mahalanobis\_distance\_to\_cluster\_centers: 507.545648257 time: 1.878600495052524

iterations: 7 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.08575486694462597

iterations: 97 max\_log\_likelihood: -1609.721147358168309 time: 14.767064710031264

iterations: 18 total\_mahalanobis\_distance\_to\_cluster\_centers: 507.010254661 time: 2.309366657049395

iterations: 11 total\_euclidian\_distance\_to\_cluster\_centers 581.590496285722 time 0.13110946002416313

estebans-mbp-2:report esteban$

estebans-mbp-2:report esteban$

estebans-mbp-2:report esteban$

estebans-mbp-2:report esteban$ python experiment\_2\_b.py

iterations: 26 max\_log\_likelihood: -1829.330803103178368 time: 5.9017480469774455

iterations: 17 total\_mahalanobis\_distance\_to\_cluster\_centers: 745.60810312 time: 3.2634088039631024

iterations: 8 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 0.1340718138962984

iterations: 29 max\_log\_likelihood: -1829.330774603061400 time: 6.61790267797187

iterations: 14 total\_mahalanobis\_distance\_to\_cluster\_centers: 757.453376763 time: 2.713889669976197

iterations: 4 total\_euclidian\_distance\_to\_cluster\_centers 1071.1372073825848 time 0.06514335796236992

iterations: 29 max\_log\_likelihood: -1829.330773232104775 time: 6.529090770985931

iterations: 17 total\_mahalanobis\_distance\_to\_cluster\_centers: 775.81751524 time: 3.2593207811005414

iterations: 8 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 0.13704211893491447

iterations: 39 max\_log\_likelihood: -1829.330765108712512 time: 8.886150805978104

iterations: 14 total\_mahalanobis\_distance\_to\_cluster\_centers: 754.860494826 time: 2.6358537829946727

iterations: 8 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 0.135194790083915

iterations: 25 max\_log\_likelihood: -1829.330765480299760 time: 5.681684816023335

iterations: 12 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.269105352 time: 2.2943442329997197

iterations: 8 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 0.12940942693967372

iterations: 25 max\_log\_likelihood: -1829.330884121231065 time: 5.673661582055502

iterations: 27 total\_mahalanobis\_distance\_to\_cluster\_centers: 763.577644169 time: 5.136062282021157

iterations: 10 total\_euclidian\_distance\_to\_cluster\_centers 665.1262463139641 time 0.17256921902298927

iterations: 100 max\_log\_likelihood: -2194.969345002339651 time: 22.667101660976186

iterations: 5 total\_mahalanobis\_distance\_to\_cluster\_centers: 760.504746867 time: 0.957129526999779

iterations: 9 total\_euclidian\_distance\_to\_cluster\_centers 991.3264317389155 time 0.14817864797078073

iterations: 30 max\_log\_likelihood: -1829.330772889122954 time: 6.754115824936889

iterations: 13 total\_mahalanobis\_distance\_to\_cluster\_centers: 753.761310088 time: 2.4726578179979697

iterations: 7 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 0.11683645797893405

iterations: 27 max\_log\_likelihood: -1829.330772346747381 time: 6.086792048998177

iterations: 18 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.269105352 time: 3.4306762031046674

iterations: 9 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 0.16350844397675246

iterations: 30 max\_log\_likelihood: -1829.330765821699288 time: 6.775549167999998

iterations: 12 total\_mahalanobis\_distance\_to\_cluster\_centers: 754.84450782 time: 2.2643333369633183

iterations: 5 total\_euclidian\_distance\_to\_cluster\_centers 1071.1372073825848 time 0.08902181300800294

iterations: 26 max\_log\_likelihood: -1829.330796044381259 time: 5.847941359970719

iterations: 16 total\_mahalanobis\_distance\_to\_cluster\_centers: 745.428445837 time: 3.0290050329640508

iterations: 8 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 0.13196219189558178

iterations: 29 max\_log\_likelihood: -1829.330764655793701 time: 6.590820293989964

iterations: 14 total\_mahalanobis\_distance\_to\_cluster\_centers: 746.126172482 time: 2.6468384279869497

iterations: 10 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 0.16316855791956186

iterations: 100 max\_log\_likelihood: -2195.005780802543995 time: 22.523256775923073

iterations: 13 total\_mahalanobis\_distance\_to\_cluster\_centers: 748.157812258 time: 2.463974865968339

iterations: 6 total\_euclidian\_distance\_to\_cluster\_centers 991.3264317389155 time 0.10468064900487661

iterations: 33 max\_log\_likelihood: -1829.330729518687349 time: 7.426443350035697

iterations: 16 total\_mahalanobis\_distance\_to\_cluster\_centers: 747.581483549 time: 3.019644172047265

iterations: 7 total\_euclidian\_distance\_to\_cluster\_centers 1071.1372073825848 time 0.11845656298100948

iterations: 26 max\_log\_likelihood: -1829.330765633970032 time: 5.878217039979063

iterations: 17 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.269105352 time: 3.1995132480515167

iterations: 9 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 0.15471525490283966

iterations: 28 max\_log\_likelihood: -1829.330786236130052 time: 6.344673883984797

iterations: 16 total\_mahalanobis\_distance\_to\_cluster\_centers: 763.248207958 time: 3.043545391992666

iterations: 10 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 0.16663808492012322

iterations: 22 max\_log\_likelihood: -1829.330884122523685 time: 4.9404719199519604

iterations: 18 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.269105352 time: 3.3915867840405554

iterations: 9 total\_euclidian\_distance\_to\_cluster\_centers 665.1262463139641 time 0.1467832709895447

iterations: 23 max\_log\_likelihood: -1829.330767589284960 time: 5.206984371994622

iterations: 13 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.269105352 time: 2.4349451230373234

iterations: 7 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 0.11828652303665876

iterations: 26 max\_log\_likelihood: -1829.330781358627746 time: 5.842235733056441

iterations: 17 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.269105352 time: 3.222373665077612

iterations: 7 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 0.11739318794570863

iterations: 27 max\_log\_likelihood: -1829.330884126699402 time: 6.079921253956854

iterations: 13 total\_mahalanobis\_distance\_to\_cluster\_centers: 757.453376763 time: 2.503492687945254

iterations: 8 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 0.13624231796711683

iterations: 25 max\_log\_likelihood: -1829.330884125371540 time: 5.709501514094882

iterations: 7 total\_mahalanobis\_distance\_to\_cluster\_centers: 753.819896536 time: 1.3303993849549443

iterations: 8 total\_euclidian\_distance\_to\_cluster\_centers 665.1262463139641 time 0.1434019129956141

iterations: 100 max\_log\_likelihood: -1992.766561870424994 time: 22.85788095300086

iterations: 10 total\_mahalanobis\_distance\_to\_cluster\_centers: 757.753987053 time: 1.8968439049785957

iterations: 15 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 0.25213649205397815

iterations: 24 max\_log\_likelihood: -1829.330884119390248 time: 5.511697344016284

iterations: 29 total\_mahalanobis\_distance\_to\_cluster\_centers: 763.577644169 time: 5.516273732064292

iterations: 10 total\_euclidian\_distance\_to\_cluster\_centers 665.1262463139641 time 0.16860635310877115

iterations: 27 max\_log\_likelihood: -1829.330775809183478 time: 6.071794059011154

iterations: 15 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.269105352 time: 2.8628131839213893

iterations: 10 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 0.16420897806528956

iterations: 31 max\_log\_likelihood: -1829.330770853506465 time: 7.095270588062704

iterations: 14 total\_mahalanobis\_distance\_to\_cluster\_centers: 757.453376763 time: 2.661108426982537

iterations: 4 total\_euclidian\_distance\_to\_cluster\_centers 1071.1372073825848 time 0.0710161830065772

iterations: 45 max\_log\_likelihood: -1829.330782459668171 time: 10.156050150981173

iterations: 11 total\_mahalanobis\_distance\_to\_cluster\_centers: 776.023477701 time: 2.063285231939517

iterations: 11 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 0.1852041269885376

iterations: 24 max\_log\_likelihood: -1829.330785360709342 time: 5.391270758002065

iterations: 17 total\_mahalanobis\_distance\_to\_cluster\_centers: 772.206201902 time: 3.1771607210393995

iterations: 7 total\_euclidian\_distance\_to\_cluster\_centers 665.0354329367673 time 0.11735268298070878

iterations: 21 max\_log\_likelihood: -1829.330884120934570 time: 4.703974528936669

iterations: 7 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.269105352 time: 1.3258096319623291

iterations: 7 total\_euclidian\_distance\_to\_cluster\_centers 665.1262463139641 time 0.11351477995049208

iterations: 22 max\_log\_likelihood: -1829.330884121579857 time: 4.972762341029011

iterations: 16 total\_mahalanobis\_distance\_to\_cluster\_centers: 752.269105352 time: 2.972588374046609

iterations: 8 total\_euclidian\_distance\_to\_cluster\_centers 665.1262463139641 time 0.12464185908902436

iterations: 25 max\_log\_likelihood: -1829.330884121817689 time: 5.64692550804466

iterations: 9 total\_mahalanobis\_distance\_to\_cluster\_centers: 754.717525452 time: 1.688101146952249

iterations: 6 total\_euclidian\_distance\_to\_cluster\_centers 665.1262463139641 time 0.09809082397259772

estebans-mbp-2:report esteban$

estebans-mbp-2:report esteban$

estebans-mbp-2:report esteban$ python experiment\_2\_b.py

iterations: 15 max\_log\_likelihood: -2342.725165901375021 time: 3.4794444569852203

iterations: 9 total\_mahalanobis\_distance\_to\_cluster\_centers: 768.274257662 time: 1.7451867959462106

iterations: 4 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.07196947396732867

iterations: 14 max\_log\_likelihood: -2342.725165901287710 time: 3.1608738540671766

iterations: 4 total\_mahalanobis\_distance\_to\_cluster\_centers: 778.26211169 time: 0.7604372450150549

iterations: 5 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.08562362298835069

iterations: 29 max\_log\_likelihood: -2342.725165352245313 time: 6.517917942954227

iterations: 5 total\_mahalanobis\_distance\_to\_cluster\_centers: 786.450264366 time: 0.9588289229432121

iterations: 4 total\_euclidian\_distance\_to\_cluster\_centers 1827.0871485824969 time 0.06815394398290664

iterations: 23 max\_log\_likelihood: -2342.725165613369427 time: 5.213859306066297

iterations: 4 total\_mahalanobis\_distance\_to\_cluster\_centers: 778.199556352 time: 0.7422332940623164

iterations: 6 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.10043362702708691

iterations: 16 max\_log\_likelihood: -2342.725165901755645 time: 3.5920924870297313

iterations: 7 total\_mahalanobis\_distance\_to\_cluster\_centers: 777.889176374 time: 1.3225946259917691

iterations: 5 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.08495930000208318

iterations: 16 max\_log\_likelihood: -2342.725165555761123 time: 3.6385022120084614

iterations: 7 total\_mahalanobis\_distance\_to\_cluster\_centers: 778.145588994 time: 1.3421490830369294

iterations: 4 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.06676533294375986

iterations: 19 max\_log\_likelihood: -2342.725165873532660 time: 4.271521377027966

iterations: 6 total\_mahalanobis\_distance\_to\_cluster\_centers: 786.679243095 time: 1.1265113879926503

iterations: 4 total\_euclidian\_distance\_to\_cluster\_centers 1850.0908723602356 time 0.06580742110963911

iterations: 16 max\_log\_likelihood: -2342.725165600624223 time: 3.597654625074938

iterations: 8 total\_mahalanobis\_distance\_to\_cluster\_centers: 821.208812469 time: 1.5143804849358276

iterations: 4 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.07222374598495662

iterations: 18 max\_log\_likelihood: -2342.725165497688977 time: 4.082142024068162

iterations: 4 total\_mahalanobis\_distance\_to\_cluster\_centers: 779.968570245 time: 0.7456776120234281

iterations: 5 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.08427432691678405

iterations: 25 max\_log\_likelihood: -2342.725165313144771 time: 5.610775983077474

iterations: 17 total\_mahalanobis\_distance\_to\_cluster\_centers: 785.54785416 time: 3.207376506063156

iterations: 7 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.11773066490422934

iterations: 24 max\_log\_likelihood: -2342.725165370355626 time: 5.377554774051532

iterations: 5 total\_mahalanobis\_distance\_to\_cluster\_centers: 778.199556352 time: 0.9375655499752611

iterations: 6 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.10014000395312905

iterations: 14 max\_log\_likelihood: -2342.725165210892101 time: 3.1905911209760234

iterations: 11 total\_mahalanobis\_distance\_to\_cluster\_centers: 780.838528514 time: 2.0615293739829212

iterations: 4 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.07033489807508886

iterations: 18 max\_log\_likelihood: -2342.725165273677703 time: 4.121946329018101

iterations: 4 total\_mahalanobis\_distance\_to\_cluster\_centers: 786.092562807 time: 0.7631222578929737

iterations: 4 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.0668233570177108

iterations: 16 max\_log\_likelihood: -2342.725165485779144 time: 3.654287975979969

iterations: 6 total\_mahalanobis\_distance\_to\_cluster\_centers: 786.399702294 time: 1.1647603090386838

iterations: 4 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.07351252401713282

iterations: 16 max\_log\_likelihood: -2342.725165847149583 time: 3.6414487679721788

iterations: 6 total\_mahalanobis\_distance\_to\_cluster\_centers: 786.679243095 time: 1.1139567389618605

iterations: 5 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.08081479999236763

iterations: 12 max\_log\_likelihood: -2342.725165900998945 time: 2.731475519016385

iterations: 5 total\_mahalanobis\_distance\_to\_cluster\_centers: 750.330498548 time: 0.9450737179722637

iterations: 4 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.06839779100846499

iterations: 21 max\_log\_likelihood: -2342.725165490356630 time: 4.764551438041963

iterations: 15 total\_mahalanobis\_distance\_to\_cluster\_centers: 782.977593229 time: 2.9183765340130776

iterations: 4 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.07063850294798613

iterations: 13 max\_log\_likelihood: -2342.725165901088076 time: 2.9899638911010697

iterations: 8 total\_mahalanobis\_distance\_to\_cluster\_centers: 750.330498548 time: 1.511191348079592

iterations: 4 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.07374891696963459

iterations: 35 max\_log\_likelihood: -2342.725165901470973 time: 7.998422643984668

iterations: 8 total\_mahalanobis\_distance\_to\_cluster\_centers: 785.798802402 time: 1.4981155160348862

iterations: 5 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.08432818402070552

iterations: 13 max\_log\_likelihood: -2342.725165816832487 time: 2.954575299983844

iterations: 5 total\_mahalanobis\_distance\_to\_cluster\_centers: 783.440022697 time: 0.9423448330489919

iterations: 4 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.07386386604048312

iterations: 51 max\_log\_likelihood: -2531.928951686106302 time: 11.557038119994104

iterations: 4 total\_mahalanobis\_distance\_to\_cluster\_centers: 781.011704743 time: 0.7520406710682437

iterations: 4 total\_euclidian\_distance\_to\_cluster\_centers 1550.596939654426 time 0.0689226909307763

iterations: 11 max\_log\_likelihood: -2342.725165496217869 time: 2.4703689819434658

iterations: 15 total\_mahalanobis\_distance\_to\_cluster\_centers: 776.626518172 time: 2.8144225620198995

iterations: 4 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.07057606091257185

iterations: 23 max\_log\_likelihood: -2342.725165520471364 time: 5.197371958987787

iterations: 6 total\_mahalanobis\_distance\_to\_cluster\_centers: 786.163979972 time: 1.1403263160027564

iterations: 4 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.0691435500048101

iterations: 14 max\_log\_likelihood: -2342.725165226564513 time: 3.1050509959459305

iterations: 12 total\_mahalanobis\_distance\_to\_cluster\_centers: 774.610963381 time: 2.255851014982909

iterations: 4 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.07133115502074361

iterations: 24 max\_log\_likelihood: -2342.725165634949917 time: 5.436901550972834

iterations: 4 total\_mahalanobis\_distance\_to\_cluster\_centers: 781.011704743 time: 0.7530403600540012

iterations: 5 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.0846308619948104

iterations: 18 max\_log\_likelihood: -2342.725165901022592 time: 4.034679209114984

iterations: 9 total\_mahalanobis\_distance\_to\_cluster\_centers: 784.63462088 time: 1.6941144940210506

iterations: 5 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.08436203200835735

iterations: 100 max\_log\_likelihood: -2537.066865285571566 time: 22.57905086700339

iterations: 18 total\_mahalanobis\_distance\_to\_cluster\_centers: 778.016382059 time: 3.439606455969624

iterations: 13 total\_euclidian\_distance\_to\_cluster\_centers 1499.8541993022775 time 0.21953972603660077

iterations: 97 max\_log\_likelihood: -2641.797009203746256 time: 21.986576128052548

iterations: 4 total\_mahalanobis\_distance\_to\_cluster\_centers: 786.679243095 time: 0.7633511379826814

iterations: 5 total\_euclidian\_distance\_to\_cluster\_centers 740.7081738492108 time 0.08789871702902019

iterations: 24 max\_log\_likelihood: -2342.725165901101263 time: 5.442865813965909

iterations: 9 total\_mahalanobis\_distance\_to\_cluster\_centers: 780.837171321 time: 1.704723823000677

iterations: 4 total\_euclidian\_distance\_to\_cluster\_centers 1550.596939654426 time 0.06852735509164631

iterations: 100 max\_log\_likelihood: -2534.123398661269221 time: 22.76623465702869

iterations: 12 total\_mahalanobis\_distance\_to\_cluster\_centers: 778.434512656 time: 2.2908411669777706

iterations: 9 total\_euclidian\_distance\_to\_cluster\_centers 1499.8583207789868 time 0.15026626002509147

estebans-mbp-2:report esteban$