**MINI PROJECT**

**Q1. Generate simple random sample of size 100 from a hypothetical population of size 1000 by WR & WOR technique. Hence, find unbiased estimator for population mean & variance for the unbiased estimator.**

**Q2.Also generate 1500 SRS of size 100 WR from same population & perform the same exercise.**

**Solutions:**

**> ## ---------MINI PROJECT (SAMPLING THEORY)-----------**

**> #1.Generate SRS of size 100 from a population of size 1000 with SRSWR & SRSWOR.**

**> #Find unbiased estimator for population mean & variance for the unbiased estimator.**

**> #Generating population of size 1000 from normal distribution**

**> N=1000**

**> n=100**

**> pop=rnorm(1000)**

**> pop**

[1] -1.771303511 0.310956527 -0.605460752 -0.301967026 0.352467269 0.012371009 -1.346715560

[8] -0.054866812 -0.767514267 -0.941897163 -0.609393142 -0.248096436 2.897216157 1.158698745

[15] 0.437130642 -0.299158521 -0.062791244 -1.407561188 -0.188425023 1.089418009 0.114150914

[22] -1.520509078 0.741593974 -0.614824426 1.712362767 -0.725436252 0.537736822 -1.123990710

[29] -0.230716100 -1.115584262 0.284226441 1.018056678 0.684194894 0.743377506 -0.837310708

[36] -0.610517476 0.021064381 -0.210410310 0.115069115 -0.304473248 -0.166225732 -1.244179588

[43] 0.240304468 0.403256011 -0.569867960 0.364971373 0.151459402 0.022281659 -0.333181385

[50] 1.051644790 -1.002258647 -0.184779026 1.883749359 -2.315046993 -1.101938692 1.736901841

[57] 1.049659736 -2.642452218 1.223828391 1.197362628 -1.260758403 0.220945178 -0.911328545

[64] 0.264863871 0.622605975 1.229743527 -1.176588937 0.782504778 -0.195973334 -0.530424166

[71] -1.687816679 0.511212974 0.379299601 0.544438717 -1.479169082 -0.285415892 0.642694135

[78] 3.157857078 0.890603510 -1.097853231 1.530281555 -0.100065038 0.198155952 -0.372268471

[85] 1.916594277 0.567855957 -0.077825225 0.411852655 -0.146384983 -0.078643337 -0.653391257

[92] 1.313413666 0.136312384 -0.028800770 0.980178888 -0.239377545 -0.349373813 0.038391572

[99] -0.040829345 1.013538448 0.799657688 -1.556895490 0.244163924 0.287221061 0.962268473

[106] 1.643216401 -0.806678012 -0.009630236 -1.896565546 -0.959457176 0.141267497 -0.875570192

[113] 0.171171136 -0.951824328 -0.642222473 1.220482821 -0.284769063 -0.235519825 -0.281399481

[120] -0.695891536 0.150252282 -1.557793616 0.308169407 -0.547259306 0.684123247 -0.620864770

[127] -0.302298536 2.239607030 -0.684925395 0.726843815 -0.646445697 -0.362320642 1.404696406

[134] 0.391670189 -0.156471768 -1.695737684 0.647682738 0.511045028 -0.737345292 0.920305553

[141] -0.800537580 -0.142297495 0.173158502 -0.349792593 0.722812711 -0.072827919 -0.447879330

[148] -0.668073762 0.595183951 0.086928841 -2.831506455 1.457402675 1.661505266 1.741174430

[155] -1.909944738 1.026325287 1.560815003 2.322835080 0.666165710 -0.267094598 -0.922502206

[162] 1.563287737 0.073079107 -0.810500193 0.634912865 0.897766635 1.172870152 -0.341564390

[169] -1.265866610 0.026751682 -1.685486375 -0.258307864 -0.327336046 0.510071620 -0.409391051

[176] 0.741183396 0.624251609 -0.372308208 2.656317311 0.872968387 0.903748424 -0.844822021

[183] -0.451728156 0.005065280 -0.928614432 -0.343268929 -0.016937383 0.239391455 0.379393372

[190] -0.857962118 0.175157637 -0.567655790 1.252231580 1.236963081 1.097167603 1.703320147

[197] -0.377119475 0.138509918 -2.305421924 2.277512591 -1.107109698 -0.703976781 2.066224532

[204] -0.915845429 0.952757123 0.849793429 -0.860620975 -1.822440388 -0.377034364 -0.258217713

[211] -1.501082900 0.640050652 -0.696697135 -1.312322570 0.330133993 -0.321868284 0.665208167

[218] 1.252821437 0.927659802 0.768053141 0.339571594 -0.168405828 0.619614564 1.265929590

[225] -0.480097658 -0.536226884 0.984326255 -0.296916721 -1.051725958 0.881510873 2.275710035

[232] 0.410051584 1.495604833 1.264668942 0.413734590 0.154382229 0.802499139 -0.123487627

[239] -0.842494569 0.555488119 -1.993513532 -0.603521270 1.813851398 0.225811887 -0.474370162

[246] 0.237924418 0.814879098 -0.284923336 -1.122006909 0.990092900 1.438124556 0.821822452

[253] -0.957418490 -1.167137197 1.677976951 0.907147734 -0.532616145 0.418721669 0.302323130

[260] 2.147114922 -0.445808550 -1.054530177 0.742352921 0.290845272 0.136686294 -1.715850534

[267] -0.213896343 -0.528302999 -0.115446714 0.311443618 -0.007900565 0.028490175 -0.885617608

[274] -0.246838066 0.134976216 -0.377648601 0.768730012 0.330010646 -2.018537205 0.559556164

[281] -1.189094784 -0.484499418 1.362746874 -1.247582231 1.116425356 0.020318010 3.078178264

[288] 0.758030485 0.158744551 1.483688252 -0.581637082 -0.984755723 -2.289230053 1.711341951

[295] -0.507681423 0.672854680 -0.876647009 1.183468669 0.770252812 1.964847454 0.595181763

[302] 0.042091761 -0.013578921 1.352284985 0.855511120 0.899196811 -0.721859520 -2.282485594

[309] 0.952349212 0.173897527 0.423105939 0.230187602 -0.226924457 0.703546769 1.844685837

[316] 0.786804552 -1.277041505 0.275832140 -1.857208179 -0.446728481 1.468019048 -0.350384534

[323] 0.205423759 0.743382224 0.271727421 -1.286841025 -0.986786856 0.679553335 0.060927312

[330] 1.105273265 -0.441610452 -0.287385387 0.026850312 0.623152268 -1.667112654 0.427090173

[337] 0.466314204 0.125050151 0.378329160 0.410794440 -2.196069119 -0.700402768 0.947043076

[344] 0.431240938 0.403381468 -0.855294467 0.341398756 0.766878355 0.330730605 -0.700820301

[351] -1.122095744 0.533897692 0.813214722 0.486028403 -0.587829104 1.785396429 -0.715432321

[358] 0.466918550 0.395768426 0.332537365 0.542094341 -0.968002139 0.886164392 2.222647342

[365] 0.279317315 0.406751385 -0.179966580 -0.866327171 1.139230709 -0.614087051 -0.410781077

[372] -0.206079076 0.560665921 -0.189204561 -0.569640479 -1.056456001 0.219321480 -2.035729112

[379] -0.923877590 -0.295987213 -1.225424575 0.184918636 -0.628134262 1.069000745 -0.939738665

[386] -0.472701458 0.205765784 -0.409787164 0.859459452 -0.800767612 0.048160374 0.382409664

[393] -0.749486411 0.458752805 1.663679820 -0.957071831 0.183872878 0.069900999 0.800628027

[400] -0.904465238 -0.381392893 0.751558932 0.065343478 0.529490233 0.327648654 -1.236967439

[407] 1.018676595 -0.197216435 0.844224625 0.934257161 0.299162638 -0.647373348 -0.558400640

[414] 0.257538294 1.547747786 0.165652767 0.626237462 -1.518622078 1.304777753 -0.375522534

[421] -0.102027273 -0.582898088 0.821247167 0.819413892 -0.530695916 1.183936961 -1.415778364

[428] -1.181401932 -1.000838700 -0.187140648 1.383322730 1.293570729 0.319408519 -1.240779515

[435] 0.687198424 -0.185967037 0.883561208 2.536960969 0.253905026 -0.135484417 -1.463747627

[442] 0.492781585 1.367004659 -0.689934575 0.666722269 -0.197715658 2.260709072 -1.658753682

[449] -0.326367172 -0.978654647 -0.680445683 0.440258295 0.622173444 0.674180576 -1.075750056

[456] -0.132806133 0.682162096 1.641304232 1.675519861 -0.531417323 0.609325796 0.987697308

[463] -0.907341839 -0.842397415 -1.100186654 1.712669795 -0.640166427 0.975921491 -0.896387279

[470] -1.693831695 2.535561100 -0.619310232 0.147633909 0.903831720 0.154781534 -0.020331021

[477] 0.027903678 -1.701569058 0.351841781 1.193813304 -0.109358238 0.853529874 -0.003843340

[484] 0.304252011 -1.183233575 1.084444615 -1.050079288 -0.123378969 -0.348722066 1.193207987

[491] 0.189140600 0.608908378 0.290527138 0.042045726 0.562242884 -1.168544809 -0.716948681

[498] 0.099896314 0.569540222 0.439499807 -1.040170862 0.002897132 -0.736627277 0.883527640

[505] 2.121147128 0.921379444 -0.884918715 0.496552244 0.374257432 0.957244563 -0.515892585

[512] 2.447479259 1.738717452 -0.668982126 0.509268298 -0.202786680 -0.728927821 -1.089147143

[519] 0.243785982 0.343682652 -0.263548510 0.464070729 0.424475817 -0.028439749 -2.573958504

[526] 0.368932265 -1.042678722 -1.039730540 1.559417611 -1.331357807 0.565971022 0.045585376

[533] 0.879668784 0.060924778 0.087858491 1.198498618 -0.908551576 1.113055484 -0.236677851

[540] -2.952881764 1.004270016 0.600720860 -1.139457056 2.394177865 0.005129513 0.437105238

[547] 2.104527819 -2.952467058 2.715467953 0.100497789 -0.779418611 -0.563504363 1.272217252

[554] -0.173687012 -0.526432431 0.517284743 1.692519036 -0.689893892 0.298611555 0.741895085

[561] -0.829251281 -1.131074899 1.897919427 0.956960672 -0.477387411 -0.784202042 -1.912635188

[568] -0.944830858 -0.591447381 -0.189407092 -0.987970012 -0.772273665 0.201274822 -1.064150456

[575] -0.575301989 0.525043797 0.398908099 -0.893046027 0.066073071 1.810575262 0.813523161

[582] -0.814418447 -0.534294192 -0.189452250 -0.431286030 0.448377103 -0.968022056 -0.059978434

[589] -1.752169590 0.682319241 0.454251436 0.946189167 1.187553753 0.643492360 -0.227461915

[596] 1.503656530 -0.135693631 0.571369197 0.039125620 -0.948913615 -0.437136435 0.833739039

[603] -0.541817896 0.873416680 -0.282570047 -0.561956555 -0.868353925 -1.017070758 0.983373053

[610] 0.844804286 0.722227711 1.000773255 -0.055814912 0.458822323 -1.104015226 -0.099580542

[617] 0.155855121 0.597335453 1.079852280 2.034037198 0.171783669 0.938628936 1.347521496

[624] -0.466523441 -1.220375942 0.496390687 0.678443759 0.534163395 0.639704015 -0.573968394

[631] 0.699079048 0.075310067 -0.375938299 0.444385485 -0.780192368 1.009447593 0.103237830

[638] -0.109727497 -0.154324184 0.540807779 -0.127809596 0.453421704 1.609825130 2.324391889

[645] -1.100412446 -0.661642053 -1.516133351 0.034461187 -1.134224072 -0.332779573 -0.019566059

[652] -0.908324980 -0.011193287 -0.292218479 -0.055008861 -0.651308139 1.668219514 0.323992247

[659] -0.253046995 -1.194097763 0.946254108 -1.506597262 -2.225220626 0.265627436 -0.777466676

[666] 0.995546772 -0.275821795 -2.452214243 1.042460600 -1.234847305 1.663690859 -0.939895792

[673] 2.001432386 -0.052164554 1.904547321 -0.915335309 -0.859498363 -0.316972475 0.197479204

[680] -0.584184971 -2.487028259 -0.341908076 3.067819974 -1.300326504 0.678591432 1.364806936

[687] 1.097494494 -0.418690529 -1.572508260 -0.720026075 -1.728240455 -1.426499368 -1.224699252

[694] -1.679425001 -1.289865673 1.546052455 0.657548916 -0.670757505 1.119999061 0.726668142

[701] -0.581195625 -0.328215825 0.419152903 -0.160344307 0.084748185 -0.583926951 0.583686147

[708] -1.812586183 -1.517464937 2.776570887 0.396531530 1.000077290 -1.110637896 1.327816118

[715] -1.113798817 0.701279285 1.091845982 -0.316211482 0.399955579 0.542827255 -1.551227834

[722] 0.266603933 0.535951357 -1.204584069 -0.770688045 0.081769557 -0.819858549 0.377546372

[729] 0.154983396 -0.244690199 -0.856623953 -0.110806459 0.337288148 -0.734181344 -2.734109580

[736] -0.030542634 -0.087275460 -1.385817570 1.262669061 0.605135376 -0.843923282 -1.155488656

[743] -0.132106727 1.409112079 0.509361585 -0.699097675 0.283588557 -0.915037166 0.024485432

[750] -0.675347265 -0.357152544 0.103072948 -0.571390902 -0.796423646 0.208342774 0.303775123

[757] -1.570827663 2.217302266 0.010064997 -0.386006774 -0.238367553 1.174388306 0.098127380

[764] 0.497523334 -1.139436116 -0.882003124 0.095138405 0.311578080 0.141412036 -1.263742889

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[792] -1.849860614 0.068848033 1.182261894 -0.985847914 -0.086347760 0.347306655 -2.220754757

[799] -0.007846708 1.573943392 0.641933020 1.302413635 0.952988404 -0.108920920 1.377022734

[806] 1.098143157 -0.645114779 1.246692453 0.750492059 -0.428843532 -0.417183233 0.888377829

[813] -0.644866797 -0.208974461 0.923464373 -0.207827212 2.340601849 -0.360775632 -1.013755251

[820] 0.905943272 -1.024004798 -0.607647103 3.219658539 -3.167609662 -0.633243976 0.249768004

[827] 0.872912401 0.766178292 -1.338124886 1.529157721 0.027663864 -0.370635332 1.047566464

[834] -1.494127207 -1.131010596 1.101361358 -0.776881174 -0.154480736 0.444865287 -1.447799220

[841] 0.150960574 -1.055885572 -0.414588423 -0.593721811 0.289431737 0.367229810 -0.082894764

[848] -0.371668247 2.283155897 0.176230885 1.504746818 0.505094956 -1.214170687 -0.716660666

[855] -0.445009323 1.338265800 -0.100558146 1.066222506 -0.821672497 0.421973862 0.670907739

[862] -0.049353437 1.021804623 0.046412967 0.910789624 0.650258891 0.174970297 0.857344136

[869] -1.318422926 0.444183657 0.952827758 -0.350162971 -1.572630420 0.030619464 0.226000793

[876] -0.111147546 -1.678589677 1.437386624 -2.360304349 -0.739560435 -1.634607626 -0.772883652

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[904] 1.029936933 -2.082214770 0.668821759 0.080021794 0.612333560 0.876136537 1.738150865

[911] 0.441532167 -2.307247216 0.299738076 -0.149088221 1.876195868 0.954666140 2.130540050

[918] 3.631192823 -0.917964721 1.066791766 0.091705486 0.270919147 1.401225652 -1.385642157

[925] 0.505752009 -0.480681870 -1.456850922 -0.410225626 -1.096843908 1.031363471 -0.822839454

[932] 0.323250196 -0.555774538 -0.114832836 -0.143424096 -0.716403992 0.027894239 -1.325352024

[939] 0.375180558 -0.295358378 1.655807545 -0.168365900 -0.838736759 0.084588147 -2.290541533

[946] -0.613706603 0.158122616 1.369271904 0.357391466 -0.627400421 0.297891728 1.989079475

[953] 1.698392459 -0.385094260 -1.449592936 -0.115567945 -0.261748849 0.978118274 0.996469767

[960] 0.534164951 -0.856307859 0.973225302 0.825249772 0.377115430 0.659199945 -1.383779071

[967] 0.648634439 -1.422037462 -0.219606373 -2.055122572 -1.171554962 0.263669241 0.532087659

[974] 1.017087314 0.736721792 -1.589856251 -2.150317956 0.694252410 -1.745021504 -1.628402129

[981] 0.087500696 1.602321137 -0.273848132 -0.205102865 -0.844978424 0.428604797 0.239180902

[988] -1.856151910 -0.928660448 0.734542963 1.169075523 0.283192885 -0.625172677 -1.087832638

[995] 0.179206627 -0.348902998 -1.683120578 -0.660503113 0.960398627 -1.789586143

**> mean\_pop=mean(pop)**

**> mean\_pop**

[1] 0.01700044

**> var\_pop=var(pop)**

**> var\_pop**

[1] 1.056137

**> #Therfore,population follows normal with mean=0.01700044 & var=1.056137**

**> #Generationg sample with replacement of size 100**

**> s1=sample(pop,n,replace=T)**

**> s1**

[1] 0.74159397 1.70332015 1.71236277 -0.61408705 0.36893227 0.99646977 0.83373904 0.36759574

[9] 1.36274687 -0.96800214 0.33728815 -0.77068804 0.44153217 -0.14342410 -0.88200312 0.34139876

[17] -0.38509426 -0.59144738 -0.85796212 0.95696067 0.97811827 1.18226189 0.54282725 -1.74502150

[25] 0.17497030 0.17117114 -0.65339126 0.68419489 0.75049206 -0.64016643 -0.85529447 0.39890810

[33] -0.37703436 1.56328774 -0.12348763 0.98769731 0.41915290 0.94625411 -0.19721643 0.51007162

[41] -0.04935344 0.81941389 -0.08634776 -1.16713720 -0.90734184 -0.05216455 1.02993693 0.99009290

[49] 1.64321640 0.50936158 -0.37764860 0.97811827 0.04641297 0.27931732 -1.01375525 -0.43713643

[57] 1.78539643 1.19320799 1.70332015 1.27221725 0.51121297 1.40122565 0.03061946 -0.59144738

[65] -1.85615191 0.64768274 0.15478153 -1.05588557 0.27931732 1.73871745 0.90594327 0.15438223

[73] 0.02685031 0.62260598 0.15096057 1.52915772 -2.28248559 -0.07282792 1.91659428 0.44486529

[81] -0.91796472 0.23792442 -0.91584543 -2.30542192 0.30377512 -1.55122783 1.18226189 0.16565277

[89] 2.89721616 -0.53141732 -0.05216455 -3.16760966 -0.93989579 -1.67942500 0.46407073 0.69907905

[97] -0.52830300 -1.18140193 0.62623746 -1.49412721

**> mean\_s1=mean(s1) #unbiased estimator of WR**

**> mean\_s1**

[1] 0.1379569

**> #var\_s1=var\_pop/100**

**> #var\_s1**

**> Ssq=(var\_pop\*N)/(N-1) #Ssq=S^2=Population mean square**

**> var\_s1=Ssq\*((N-1)/(N\*n)) #variance for the unbiased estimator in case of WR(ie.Var(ybar)= sigma/n or var(ybar)=S^2\*((N-1)/(Nn)))**

**> var\_s1**

[1] 0.01056137

**> # Therefore, sample 1 with replacement has unbiased mean 0.1379569 & variance of this unbiased estimator 0.01056137**

**> #Generating sample without replacement of size 100**

**> s2=sample(pop,100,replace=F)**

**> s2**

[1] 0.084748185 -0.581195625 0.290845272 -0.948913615 -0.796423646 0.622605975 0.115069115

[8] -1.472592580 -0.185967037 -0.375938299 -0.226924457 0.532087659 -0.295358378 1.139230709

[15] 0.448377103 -0.377034364 0.141267497 -0.052164554 -0.207827212 -0.684925395 -1.263742889

[22] 0.239391455 -1.054530177 -1.572630420 -1.123990710 -1.056456001 -0.321868284 -0.605460752

[29] -1.013755251 0.542827255 2.277512591 1.098143157 -1.325352024 0.804762403 0.444385485

[36] -0.135693631 -0.143424096 0.155658043 0.571369197 -0.915845429 -1.171554962 0.269515223

[43] 0.486028403 -0.030542634 -0.281399481 2.656317311 0.996469767 3.157857078 -0.007846708

[50] 2.394177865 0.534164951 1.069000745 -1.732639095 -0.019566059 -1.024004798 0.158744551

[57] -0.054866812 -1.728240455 0.682162096 -0.528302999 -0.814418447 -0.959457176 3.219658539

[64] -0.409787164 -1.050079288 0.648634439 1.409112079 0.857344136 0.458822323 -0.569867960

[71] -0.168365900 -0.619310232 1.097494494 0.038391572 1.182261894 -2.952467058 1.457402675

[78] -2.831506455 -0.202786680 0.239180902 -1.225424575 0.583686147 2.104527819 -1.611387666

[85] -0.049353437 1.964847454 0.066073071 -1.234847305 -0.135484417 1.047566464 -0.625172677

[92] -0.591447381 -2.734109580 0.978118274 1.401225652 -0.381392893 2.147114922 0.219321480

[99] -1.113798817 -0.721859520

**> mean\_s2=mean(s2) #unbiased estimator of WOR**

**> mean\_s2**

[1] -0.012858

**> Ssq=(var\_pop\*1000)/999 #Ssq=S^2=Population mean square**

**> Ssq**

[1] 1.057194

**> var\_s2=Ssq\*((1000-100)/(1000\*100)) #Variance of unbiased estimator in case of WOR(ie.Var(ybar)=S^2\*((N-n)/(N\*n)))**

**> var\_s2**

[1] 0.009514744

**> # Therefore, sample 1 without replacement has unbiased mean -0.012858 & variance of this unbiased estimator 0.009514744**

**> #2. Generating 1500 SRS of size 100 each WR from the above population**

**> #finding its unbiased estimator for population mean & variance for unbiased estimator**

**> for(i in 1:1500)**

**+ {**

**+ s3=sample(pop,100,replace=TRUE)**

**+ print(s3)**

**+ mean\_s3=mean(s3)**

**+ print(mean\_s3) #unbiased estimator of population mean in case of SRSWR**

**+ var\_s3=var\_pop/100**

**+ print(var\_s3) #variance of unbiased estimator in case of SRSWR**

**+ }**

**….**

**…..**

**……** . last 100 samples

.

[1] 0.81487910 -0.39040802 0.72281271 0.54080778 1.09149272 0.17623088 -0.18714065 0.06092731

[9] -1.11379882 0.41373459 -0.28492334 0.10323783 -0.58289809 2.03403720 -1.10193869 0.91078962

[17] -0.10935824 0.20127482 -0.56195655 -0.15432418 -0.83873676 -1.67858968 -1.01375525 0.66882176

[25] -0.77941861 0.70127929 1.66150527 0.89060351 0.95275712 0.39576843 0.42447582 0.37832916

[33] 0.03061946 -0.08727546 -1.50659726 0.36759574 0.80249914 0.49752333 2.89721616 -1.85720818

[41] -0.86632717 -1.50659726 -0.62517268 -0.05500886 0.74189509 -0.13569363 0.35739147 0.62623746

[49] 0.66520817 0.33013399 -0.27582180 0.06092478 -1.12399071 1.18226189 0.04641297 1.22048282

[57] 0.28943174 0.29782896 0.43949981 0.66520817 0.96226847 -0.27384813 -2.19606912 -0.91132854

[65] -1.20458407 -0.68989389 0.61233356 2.77657089 -0.18714065 0.33253736 0.29638730 -0.19771566

[73] -0.84392328 -0.93989579 1.02180462 0.43124094 0.29973808 1.16907552 -0.18477903 1.01805668

[81] 0.35246727 1.18755375 0.02849018 -1.67942500 -0.26354851 -0.73662728 1.69251904 0.95696067

[89] 0.33073060 0.02031801 0.66520817 0.53595136 -1.74502150 0.17515764 1.71266979 -0.84497842

[97] -1.47259258 1.71266979 0.45882232 -1.17658894

[1] 0.1102677

[1] 0.01056137

[1] 0.571369197 -0.860620975 -1.244179588 1.119999061 0.517284743 0.726668142 -0.536226884

[8] 0.184918636 0.441532167 -0.445009323 2.715467953 1.668219514 0.343682652 -0.946336394

[15] 0.881510873 0.151459402 1.089418009 0.421973862 -0.689893892 -0.302298536 0.367229810

[22] 0.171171136 -2.290541533 -0.911328545 -0.385094260 0.505752009 -0.343268929 1.876195868

[29] -0.884918715 0.266603933 -0.796423646 -0.772883652 0.978118274 0.821822452 0.672854680

[36] -0.135693631 -0.558400640 -0.776881174 -0.776881174 0.155658043 0.419152903 1.989079475

[43] -0.108920920 0.081769557 -0.842494569 -0.558400640 0.244163924 1.655807545 0.544438717

[50] 1.495604833 0.098127380 0.368932265 -1.289865673 -1.695737684 -1.167137197 -0.109358238

[57] -1.277041505 -1.225424575 1.904547321 0.341398756 -0.593721811 0.341398756 1.675519861

[64] -0.020331021 0.905943272 -1.449592936 -3.167609662 -0.978654647 -0.007846708 -1.122006909

[71] -2.952881764 1.236963081 1.797348456 -0.749486411 0.154983396 -1.822440388 0.559556164

[78] -0.343268929 -0.978654647 -1.506597262 1.897919427 0.486028403 1.101361358 0.269515223

[85] 0.657548916 -0.868353925 -0.072827919 -0.082894764 1.738717452 0.103237830 -0.227461915

[92] -0.135484417 -0.348902998 0.736721792 0.403381468 0.659199945 -0.284769063 -2.289230053

[99] 1.367004659 0.243785982

[1] 0.001937879

[1] 0.01056137

[1] 0.17117114 -1.01375525 0.46691855 0.02031801 -0.58163708 0.75049206 1.26592959 -0.74948641

[9] -0.79642365 -0.08634776 -0.77288365 0.24416392 -0.15448074 -0.17368701 2.14711492 -0.37230821

[17] 0.74235292 1.19736263 -0.80076761 -0.44580855 -0.59144738 -0.02880077 0.90383172 -0.77688117

[25] 0.00506528 -1.22542458 0.92346437 -1.70156906 0.33073060 0.35739147 -1.65875368 0.12505015

[33] 1.88374936 0.04209176 -1.49412721 -1.26075840 -2.28248559 0.29782896 -1.51613335 1.02180462

[41] 0.41079444 -0.92866045 0.04209176 -0.71666067 -0.53261614 -0.56197754 0.29973808 1.24669245

[49] 0.53208766 0.90374842 1.52915772 1.69251904 -0.61051748 0.50926830 -0.65130814 -0.07782523

[57] -0.40978716 0.42197386 -0.96800214 -0.13548442 2.53696097 0.08458815 -2.28248559 0.02106438

[65] -0.01357892 0.62425161 0.92346437 -0.32636717 0.45425144 0.12505015 0.28358856 0.88356121

[73] 0.66672227 -1.74502150 0.88356121 -2.64245222 -0.08727546 -1.91263519 0.13668629 0.53208766

[81] -0.77941861 -0.24809644 -1.23696744 -0.48068187 0.29638730 -0.22746191 -1.11379882 -0.30229854

[89] 0.83373904 -1.17155496 1.00427002 0.24976800 0.28358856 0.94618917 -0.44787933 -0.08727546

[97] 2.23960703 -1.75216959 -0.48068187 1.69251904

[1] -0.05228097

[1] 0.01056137

[1] 0.650258891 1.174388306 -1.040170862 0.973225302 2.275710035 -0.859498363 0.244375268

[8] -1.113798817 -0.168405828 0.086928841 0.505752009 2.394177865 -0.668073762 0.311443618

[15] -1.167137197 0.134976216 0.396531530 -0.115446714 0.311443618 0.555488119 -0.670757505

[22] -0.661642053 -0.292218479 0.758030485 -1.849860614 0.560665921 0.391670189 1.692519036

[29] 1.692519036 2.535561100 1.327816118 0.910789624 0.303775123 1.252231580 1.897919427

[36] -1.771303511 -0.614087051 -2.315046993 0.379299601 -1.260758403 0.623152268 -0.645114779

[43] 1.712669795 0.155855121 1.712362767 -1.115584262 -0.567655790 0.087858491 0.010064997

[50] 0.275832140 -0.339847815 -0.111147546 0.337288148 1.264668942 -0.779418611 0.466314204

[57] -0.052164554 -0.915845429 0.879668784 1.438124556 0.005129513 -2.035729112 -1.789586143

[64] 0.583686147 1.736901841 -0.884918715 0.883561208 2.277512591 -1.325352024 -0.474370162

[71] 0.876136537 -0.625172677 0.938628936 -1.189094784 2.121147128 -0.205102865 0.886164392

[78] -0.645114779 -0.530424166 0.042045726 -0.301967026 0.114150914 1.069000745 0.289431737

[85] 0.897766635 0.303775123 0.600720860 0.987697308 -0.700820301 0.410051584 2.275710035

[92] 0.155855121 1.089418009 -0.644866797 -0.253046995 0.287221061 -0.377648601 0.855511120

[99] 0.424475817 0.136312384

[1] 0.2185117

[1] 0.01056137

[1] 0.42709017 2.89721616 0.37832916 0.87966878 1.00944759 0.67955333 1.81385140 2.03403720

[9] 0.17515764 1.18346867 -1.81258618 0.13497622 0.04204573 0.03912562 -0.28139948 -2.64245222

[17] -0.18842502 -0.24683807 -0.29598721 -0.88561761 -0.69909768 0.36759574 -0.37552253 -0.71694868

[25] 0.08692884 -0.92057953 1.09814316 -0.55577454 1.78539643 -0.30196703 -0.66164205 0.77025281

[33] 0.54282725 -1.13422407 0.63970401 2.14711492 1.30241363 0.32764865 -1.22542458 0.00506528

[41] -0.58790215 0.69425241 -0.89304603 -0.33318139 -0.60764710 -1.10710970 0.07531007 -0.28492334

[49] -0.16836590 -0.92861443 0.15498340 -0.94189716 -0.89638728 -0.63324398 -0.84497842 0.17117114

[57] -1.25641952 0.76873001 -0.09958054 0.96039863 -0.10892092 0.14141204 1.73690184 -0.28738539

[65] 1.36700466 -0.62517268 -1.00225865 -0.94483086 -1.33135781 1.89791943 -1.51862208 0.81941389

[73] 1.35228498 -0.11483284 -2.36030435 -1.17658894 -0.83873676 0.22600079 1.60232114 -0.74948641

[81] -0.92866045 -0.69909768 -1.38377907 1.70332015 0.74338222 0.44418366 0.01006500 1.18346867

[89] -0.91132854 -1.67942500 -2.03572911 -1.11558426 1.57394339 -0.09958054 0.93876730 -1.22469925

[97] -0.42884353 -0.62740042 -1.17155496 0.18914060

[1] -0.0637053

[1] 0.01056137

[1] 0.533897692 0.297891728 0.413734590 0.505752009 0.220945178 -0.062791244 -1.589856251

[8] 0.533897692 0.905943272 1.018676595 0.220945178 0.934257161 -1.745021504 -0.349792593

[15] 0.027894239 0.782504778 -1.516133351 0.046630699 -0.613706603 -0.609393142 -1.346715560

[22] -0.842494569 -0.920579533 0.421973862 -0.185967037 -0.893046027 -1.134224072 1.026325287

[29] 0.275832140 0.595183951 1.051644790 0.453421704 -0.575301989 -0.951824328 0.411852655

[36] -0.111147546 0.975921491 -0.114832836 0.298611555 0.299162638 0.751558932 -0.985847914

[43] -2.315046993 -0.614087051 1.383322730 0.039125620 1.009447593 -1.002258647 0.039125620

[50] -1.346715560 0.437130642 0.905943272 -1.447799220 -2.084785568 1.483688252 0.952988404

[57] -0.316972475 -0.350384534 1.213430893 -0.028439749 0.980178888 0.449181862 -0.808554647

[64] 0.183872878 0.423105939 0.413734590 0.091705486 -0.915037166 1.220482821 -0.642222473

[71] 0.183872878 -0.013578921 -1.745021504 0.347306655 0.642694135 -1.732639095 -0.284923336

[78] 0.766878355 -1.100186654 0.640050652 -1.849860614 0.151459402 1.302413635 -1.194097763

[85] -0.302298536 0.239180902 -0.584184971 -0.007900565 0.583686147 -1.000838700 1.304777753

[92] 0.279317315 0.946189167 0.069900999 -0.431286030 -0.140845199 -0.472701458 3.631192823

[99] -0.907341839 -0.868353925

[1] -0.03737193

[1] 0.01056137

[1] 1.52915772 -0.02880077 2.53696097 -0.22746191 -0.34190808 0.04558538 0.04558538 -0.82925128

[9] -0.14638498 -0.11080646 -2.22075476 1.57394339 0.33001065 3.15785708 -0.26174885 0.49278159

[17] 0.37711543 1.30477775 0.32325020 -1.46374763 -0.71666067 -0.19771566 -1.42203746 -0.91533531

[25] 2.13054005 -0.53261614 0.74189509 -0.86062097 -0.15647177 0.53595136 -1.39722088 -0.52643243

[33] 0.28422644 -0.29598721 -0.11556794 -1.39722088 0.33957159 1.00944759 0.18387288 -2.05512257

[41] 1.64321640 0.95466614 0.10323783 1.17438831 0.06092731 0.07531007 1.09716760 -0.13280613

[49] 0.53416495 0.68412325 -0.47437016 1.54605245 0.87341668 0.03446119 -0.41718323 -0.34190808

[57] 0.33073060 -0.54181790 1.56081500 0.65754892 -0.80667801 -0.64644570 -0.44787933 -0.60352127

[65] 0.72281271 -1.38581757 -2.83150646 0.64005065 0.39890810 0.29052714 0.15874455 -0.97865465

[73] 1.53028155 -0.24809644 -1.70156906 0.15438223 0.62425161 1.87619587 -0.57139090 0.67090774

[81] 0.09513840 -0.24469020 -0.21960637 -0.55840064 0.83373904 -0.37226847 -0.02880077 -0.31621148

[89] 0.70354677 -0.92250221 -1.40756119 0.81487910 -0.59144738 -0.91533531 0.96226847 0.06534348

[97] -1.49412721 0.13850992 -0.32821583 1.26592959

[1] 0.04470488

[1] 0.01056137

[1] 0.220945178 -1.225424575 -0.258307864 0.042045726 1.113055484 -1.589856251 -1.087832638

[8] 0.279317315 -0.422195596 -0.287385387 0.179206627 0.103072948 -0.561956555 -1.658753682

[15] -1.134224072 -0.431286030 0.899196811 0.382409664 -0.567655790 2.394177865 -0.584184971

[22] -1.115584262 -0.226924457 0.069900999 -0.584184971 -0.915845429 0.327648654 0.270919147

[29] 0.045585376 -0.569640479 -2.305421924 0.347306655 0.087500696 0.703546769 0.670907739

[36] -0.267094598 0.012371009 0.595183951 -1.214170687 -0.437136435 1.738717452 -0.253046995

[43] -1.122095744 -0.968022056 0.038391572 1.091845982 -1.572630420 0.287221061 0.098127380

[50] -0.284923336 1.183936961 0.952827758 -0.951824328 1.559417611 2.066224532 -1.517464937

[57] 1.736901841 -0.386006774 0.766878355 -0.007900565 -0.132806133 0.883527640 0.643492360

[64] 0.125050151 0.448377103 0.226000793 3.157857078 0.271727421 -1.557793616 -0.567655790

[71] 0.377546372 -0.184779026 -0.235519825 0.028490175 0.857344136 0.464070729 -0.339847815

[78] 1.563287737 1.089418009 1.573943392 0.975921491 0.065343478 -2.150317956 0.890603510

[85] -0.054866812 0.853529874 1.017087314 3.078178264 -0.472701458 1.139230709 -0.806678012

[92] -0.466523441 -1.176588937 0.678443759 0.012371009 0.819413892 0.253905026 -0.842494569

[99] 1.483688252 0.509361585

[1] 0.1025445

[1] 0.01056137

[1] -0.65130814 0.38240966 0.04558538 -1.26075840 1.66150527 -1.84986061 0.15025228 -0.23836755

[9] -2.22075476 -0.06279124 -0.12780960 0.37425743 0.30425201 1.43738662 -1.70156906 0.36759574

[17] -0.30229854 0.08176956 0.31157808 -1.72824046 -0.80855465 0.02448543 1.49560483 0.08176956

[25] 1.69251904 -0.91584543 0.07531007 -0.37552253 -1.55122783 -0.24683807 0.87341668 0.17623088

[33] -1.57082766 0.62623746 0.99646977 -1.57082766 0.21932148 0.39167019 0.26562744 0.21932148

[41] 0.53416495 -0.60764710 0.95466614 -0.61051748 0.42197386 0.02448543 1.43812456 0.43124094

[49] 1.25223158 -0.64222247 0.64768274 -1.55122783 2.39417786 -1.41577836 -0.77227366 1.43812456

[57] 1.78539643 0.02790368 -0.91503717 0.09812738 0.02789424 -0.92057953 0.29916264 -0.93973867

[65] 0.02448543 -0.10006504 -1.01375525 -0.61408705 0.57136920 0.53389769 -0.33277957 -0.77746668

[73] 2.26070907 -1.19409776 -0.58289809 -1.72824046 1.33826580 1.66369086 -0.77227366 0.67859143

[81] 0.30816941 -0.42219560 1.23696308 -0.32733605 3.63119282 -0.35016297 0.72222771 1.56328774

[89] 2.65631731 -0.18920456 0.95466614 1.53028155 0.15096057 -1.49412721 0.51007162 1.00077326

[97] 0.17623088 1.91659428 -0.26354851 -1.26075840

[1] 0.1047726

[1] 0.01056137

[1] -0.348902998 0.687198424 1.530281555 -0.920579533 0.952988404 -1.679425001 1.089418009

[8] 0.244163924 -1.771303511 -0.619310232 -0.054866812 0.021064381 0.220945178 -0.640166427

[15] -0.054866812 -0.140845199 -0.917964721 0.814879098 -0.187140648 -0.321868284 -0.800537580

[22] 1.711341951 -0.561977540 -0.295987213 0.219321480 -0.127809596 -0.829251281 0.205423759

[29] -0.800537580 0.938767301 0.768730012 0.220945178 0.857344136 -0.327336046 -0.806678012

[36] -0.030542634 -0.127809596 0.659199945 -0.837310708 -0.716660666 2.897216157 -0.007900565

[43] 1.876195868 -0.386006774 -2.315046993 -0.796423646 1.252821437 -1.183233575 0.726668142

[50] 0.750492059 0.299162638 -1.056456001 -1.050079288 -0.246838066 -1.820546821 0.431240938

[57] 2.535561100 0.382409664 -0.822839454 0.684123247 0.303775123 -0.296916721 0.952827758

[64] -1.122095744 -2.035729112 -0.109727497 0.377115430 1.313413666 -0.806678012 -1.822440388

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> summary(s3)

Min. 1st Qu. Median Mean 3rd Qu. Max.

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