Econometrics: Problem Set I - Tuo Wang

> install.packages("miscTools")

trying URL 'https://mirrors.nics.utk.edu/cran/bin/macosx/mavericks/contrib/3.2/miscTools\_0.6-16.tgz'

Content type 'application/x-gzip' length 55807 bytes (54 KB)

==================================================

downloaded 54 KB

The downloaded binary packages are in

/var/folders/k6/53lprdwx64v0rb3j30n3hg480000gn/T//RtmpuL0lZA/downloaded\_packages

> read.csv("/Users/TariesW/Desktop/ECON 345/HW 1/One X Column.txt",header=F)

V1

1 1.2835940

2 0.9732653

3 -0.7612836

…… ………………

998 0.4944988

999 -0.7233002

1000 -0.1863529

> data=read.csv("/Users/TariesW/Desktop/ECON 345/HW 1/One X Column.txt",header=F)

> colMeans(data)

V1

-0.03178884

> colMedians(data)

V1

-0.01067

> summary(data)

V1

Min. :-3.50596

1st Qu.:-0.65559

Median :-0.01067

Mean :-0.03179

3rd Qu.: 0.62879

Max. : 3.22980

> dim(data)

[1] 1000 1

> length(data)

[1] 1

> source("/Users/TariesW/Desktop/ECON 345/HW 1/One Y Column.txt")

> read.csv("/Users/TariesW/Desktop/ECON 345/HW 1/One Y Column.txt",header=F)

V1

1 5.8729760

2 3.3801360

3 0.7644039

……… …………

998 4.7322400

999 0.9247740

1000 1.3725580

> data1=read.csv("/Users/TariesW/Desktop/ECON 345/HW 1/One Y Column.txt",header=F)

> dim(data1)

[1] 1000 1

> length(data1)

[1] 1

> colMeans(data1)

V1

3.804855

> colMedians(data1)

V1

2.093885

> summary(data1)

V1

Min. :-256.1954

1st Qu.: -0.4327

Median : 2.0939

Mean : 3.8049

3rd Qu.: 4.6133

Max. :1203.0640

>

2. What is the standard error of the sample means?

-The standard error is the sample’s standard deviation divided by √n. It is used to estimate the standard deviation of the sample mean based on the population mean.

3. What is the standard error of the sample medians?

-The standard error of sample median should be : standard error of mean \* 1.25

It is thus less efficient and more subject to sampling fluctuations. It is usually to estimate a data that are not drawn from a normally distributed population and rarely used.

Appendices

> install.packages("miscTools")

trying URL 'https://mirrors.nics.utk.edu/cran/bin/macosx/mavericks/contrib/3.2/miscTools\_0.6-16.tgz'

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V1

1 1.2835940

2 0.9732653

3 -0.7612836

4 0.0325000

5 -1.4082200

6 -2.0295720

7 -2.1569160

8 1.0312540

9 -0.9405365

10 0.9416188

11 -1.4267200

12 -0.5060759

13 0.4412177

14 0.3359570

15 -0.0165000

16 0.1533662

17 0.3581140

18 -0.7941146

19 -1.9741130

20 -2.5219650

21 -0.4605035

22 0.2796450

23 0.5676422

24 1.0234390

25 0.3599859

26 1.8589950

27 -0.7955471

28 0.0576000

29 -0.2832681

30 -0.3783155

31 0.8179148

32 -0.8306286

33 0.8435801

34 0.1797868

35 -0.5503671

36 1.3984390

37 -2.0664720

38 1.8272110

39 -1.4007690

40 0.6307655

41 0.7145938

42 0.3719683

43 -0.0617000

44 -0.3575123

45 -0.2820382

46 0.3323339

47 -0.0805000

48 -1.0663950

49 -1.1570690

50 0.2932869

51 1.5596310

52 -0.7195046

53 -0.6449661

54 -0.7569862

55 0.3839339

56 1.3288920

57 1.1198870

58 -0.5937734

59 0.5430404

60 -1.0815530

61 1.2007990

62 -0.0115000

63 -0.4508949

64 0.3627261

65 0.2097786

66 -0.2049193

67 0.4741272

68 0.9138192

69 -2.4550130

70 0.7201034

71 -0.7921800

72 -0.6306470

73 0.1417691

74 -0.8175992

75 -0.7575806

76 -1.9032730

77 -1.1659340

78 0.2226101

79 -0.4385686

80 2.0091780

81 1.8626680

82 0.0996000

83 -0.3946130

84 0.3533417

85 -0.7203930

86 0.2694916

87 0.4167331

88 0.3634622

89 -1.0697200

90 -3.2207520

91 -2.5627360

92 -0.4474994

93 -1.5707770

94 -0.6808986

95 0.8719013

96 0.3685105

97 0.3054336

98 -0.0918000

99 -1.5914280

100 -2.2367750

101 0.0126000

102 -0.1401491

103 0.1474576

104 -0.7098904

105 -0.6032236

106 -0.2669047

107 2.3257960

108 1.2327980

109 -1.3745410

110 0.1250809

111 2.2261610

112 -0.6827210

113 0.9332343

114 0.4939429

115 -1.6112820

116 -0.1516942

117 -0.3340768

118 0.9356446

119 1.1976820

120 -2.3970470

121 0.0804000

122 -0.0663000

123 -0.0772000

124 -0.4190639

125 1.5623360

126 0.1005790

127 -1.1452650

128 0.7915968

129 0.0812000

130 -1.1454390

131 -0.3880414

132 0.7524006

133 -0.3529753

134 -0.5292781

135 -0.0214000

136 -2.0463880

137 1.0872780

138 0.8515854

139 -1.7819640

140 -0.8601804

141 1.7066280

142 -0.8564859

143 0.6469538

144 0.4047482

145 -0.5520109

146 -0.0587000

147 -1.2474230

148 -0.4418820

149 -0.3566792

150 0.4471618

151 -0.2274402

152 0.6999189

153 1.3898210

154 -1.2812570

155 -0.7016412

156 2.5840020

157 -0.6756739

158 -0.4098820

159 0.0611000

160 0.1834003

161 -0.2567516

162 -1.9983700

163 -0.3545058

164 -0.0145000

165 -1.4917830

166 0.8019891

167 2.0612910

168 1.2057140

169 1.7211890

170 -1.0301800

171 1.0532760

172 0.1072795

173 -2.3597230

174 -0.6557276

175 0.2222329

176 -0.8559700

177 -0.9475182

178 -0.1020737

179 -0.9636063

180 1.1403280

181 -0.8963515

182 0.0017400

183 -0.6081755

184 -0.6063535

185 -1.8832740

186 -1.3883300

187 -0.6114429

188 -1.8502920

189 0.9352067

190 0.5812301

191 -0.6251225

192 -0.5547591

193 -0.5660525

194 0.7483554

195 1.4041630

196 0.9100283

197 0.7121489

198 -1.7128770

199 0.1424565

200 0.8848418

201 -0.4134366

202 -1.5597440

203 0.6076432

204 -0.7741469

205 0.4056067

206 -0.6555463

207 0.5016317

208 -1.8927600

209 -0.2280607

210 0.6111953

211 1.1521980

212 -0.0142000

213 0.6157115

214 1.4985880

215 -0.0206000

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217 -1.4979040

218 1.4687910

219 0.4371110

220 -0.8974806

221 0.6315693

222 -0.3808940

223 -0.5069681

224 0.3548249

225 0.8931320

226 0.6957055

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228 -0.9328638

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246 0.2900326

247 0.1773254

248 0.2439738

249 -0.7961339

250 1.0205990

251 0.2882165

252 -0.8810510

253 -0.6446100

254 -0.9116022

255 0.5327025

256 -0.7288411

257 -2.2689270

258 -0.7760925

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260 1.7868100

261 -0.7464362

262 0.8191764

263 0.7863916

264 -1.3655510

265 -0.5801531

266 0.3810384

267 0.6105513

268 -0.2324690

269 1.1779610

270 0.1639195

271 0.4029261

272 0.3925939

273 0.8264728

274 0.0966000

275 -0.8948728

276 0.0256000

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279 -2.7871220

280 0.8292172

281 0.0508000

282 -0.9040568

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285 -0.2706608

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287 0.3445658

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526 0.1364936

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528 2.2076980

529 0.4720418

530 0.4259463

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532 0.6754676

533 1.6708070

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590 0.3269664

591 1.6147790

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593 -0.1829751

594 -1.7219910

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598 0.3928503

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600 1.7624020

601 0.3414687

602 0.2910170

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607 0.2735296

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610 0.7605687

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618 -0.3352530

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620 -0.3856192

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622 0.0560000

623 1.5079610

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625 0.2925706

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628 1.5288080

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630 1.4633120

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677 -0.1305057

678 -1.6113270

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680 -0.3048199

681 0.1025055

682 0.3153103

683 1.3015300

684 0.8581681

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686 -0.0229000

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688 0.9323001

689 0.0993000

690 -0.6337660

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693 0.5999450

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695 1.6500560

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701 0.3330559

702 -0.0988000

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704 0.7310107

705 -0.3224653

706 0.8131543

707 -1.9377790

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709 -1.2007180

710 0.6187065

711 -1.2116950

712 1.0406600

713 -0.9812815

714 -0.5674714

715 0.7999860

716 -0.2351150

717 -0.8674453

718 -0.1003263

719 -0.5814285

720 -0.6552271

721 -0.4241114

722 -1.6150810

723 -1.4899060

724 0.3054463

725 1.6745530

726 0.0394000

727 0.7426219

728 1.1931260

729 -1.0504120

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731 -0.3582036

732 0.5117708

733 0.0538000

734 1.5068630

735 1.6386980

736 -1.4331160

737 0.5963305

738 -0.4835450

739 0.8943180

740 2.0022590

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742 -0.0695000

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744 -1.9470620

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748 0.4050587

749 -1.6240950

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759 1.5334510

760 -0.8503515

761 -0.3884272

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763 0.1112105

764 0.5788278

765 0.2820758

766 0.4420247

767 -1.9682730

768 0.5225550

769 0.7935399

770 -0.4816657

771 0.6128134

772 -0.2560339

773 0.5539502

774 1.1955010

775 0.8798348

776 0.6005920

777 -0.0859000

778 0.9388781

779 -0.9312224

780 0.9613328

781 -2.2173170

782 0.0811000

783 2.1695780

784 -0.6713865

785 -0.6267350

786 0.3207282

787 -0.1557085

788 -1.0089570

789 -0.3771380

790 -0.0232000

791 0.9030855

792 0.0269000

793 -0.0629000

794 -0.6544789

795 1.0116270

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797 -0.9215395

798 1.8276740

799 -0.3744583

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801 0.2711140

802 1.5566830

803 2.8517380

804 -0.1132476

805 -0.9861567

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807 -0.9519216

808 -1.0394990

809 -0.7350156

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811 -0.5311266

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813 -0.1022561

814 0.7676395

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817 -0.0634000

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819 -0.6337691

820 0.0173000

821 -1.2729440

822 0.9222973

823 1.1791820

824 -0.5866546

825 -0.4817379

826 -0.9087846

827 0.2836823

828 0.8280299

829 0.7196709

830 0.1197131

831 0.2512022

832 0.6495712

833 0.8753412

834 0.4256217

835 -0.9589925

836 -0.5145748

837 0.6740234

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995 0.2874229

996 -0.0098400

997 -0.2899818

998 0.4944988

999 -0.7233002

1000 -0.1863529

> data=read.csv("/Users/TariesW/Desktop/ECON 345/HW 1/One X Column.txt",header=F)

> colMeans(data)

V1

-0.03178884

> colMedians(data)

V1

-0.01067

> summary(data)

V1

Min. :-3.50596

1st Qu.:-0.65559

Median :-0.01067

Mean :-0.03179

3rd Qu.: 0.62879

Max. : 3.22980

> dim(data)

[1] 1000 1

> length(data)

[1] 1

>

> source("/Users/TariesW/Desktop/ECON 345/HW 1/One Y Column.txt")

> read.csv("/Users/TariesW/Desktop/ECON 345/HW 1/One Y Column.txt",header=F)

V1

1 5.8729760

2 3.3801360

3 0.7644039

4 2.7377640

5 -2.9414510

6 30.4584600

7 -4.1816060

8 4.9373280

9 0.2692388

10 5.0055080

11 -2.3884810

12 0.8833237

13 2.8493980

14 3.3601520

15 3.3953980

16 2.9137560

17 1.6530670

18 0.2677205

19 -5.2560640

20 -5.5676250

21 -1.8751760

22 1.9294540

23 2.1481620

24 4.6673340

25 4.0132840

26 8.3985100

27 1.5984950

28 2.1327710

29 1.4592030

30 1.8311360

31 4.9822840

32 -0.1027680

33 -44.0847000

34 5.4341980

35 9.3013980

36 5.1566680

37 -6.9338490

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40 2.4406910

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47 1.4018330

48 2.2220990

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67 3.0751950

68 5.6498070

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71 -4.6276820

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775 12.9458800

776 0.2081347

777 0.4307698

778 4.4196730

779 0.1829695

780 3.2847160

781 -5.4127690

782 -0.1472677

783 7.0779790

784 15.5856800

785 0.0249000

786 2.5161170

787 2.7776890

788 -7.1810270

789 -10.3933500

790 1.9268470

791 6.2398970

792 3.4519000

793 0.0949000

794 0.3601725

795 -1.6644900

796 4.0324980

797 0.1645718

798 8.0044700

799 -3.0062080

800 5.3276900

801 -0.2721311

802 8.4583460

803 11.6669600

804 6.6821230

805 -1.9917540

806 5.3349570

807 -0.4076251

808 -1.1908120

809 1.9822490

810 -2.0312920

811 1.5232630

812 5.1329100

813 0.7806300

814 5.4399730

815 0.9637825

816 5.6943620

817 374.9954000

818 4.9748470

819 -7.0251370

820 11.4742800

821 -1.5774700

822 4.9104930

823 5.3014360

824 -2.3424470

825 0.8156058

826 7.6451650

827 2.8079140

828 13.6668700

829 -17.0381400

830 3.4411920

831 1.3358990

832 4.3267880

833 -11.0676200

834 3.6891160

835 -0.4822175

836 -2.2611950

837 1.4990700

838 -5.7601290

839 4.9731040

840 -3.8830810

841 -3.1004760

842 2.0181630

843 3.3224060

844 4.1960040

845 -1.2269060

846 3.2133580

847 6.5837630

848 13.5905900

849 3.6697550

850 3.4704020

851 5.6968560

852 8.1652620

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855 2.1279550

856 -2.4626310

857 8.0120290

858 4.0381910

859 -25.4778700

860 -2.6397560

861 1.5978010

862 -0.3888098

863 -1.4025300

864 2.9845120

865 -6.5781040

866 1.1569780

867 -8.4059840

868 -1.9087690

869 3.2807710

870 -6.3598900

871 -4.3686760

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879 -0.1946520

880 76.1902900

881 3.2279240

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884 5.2701560

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886 8.8597970

887 0.8613371

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890 5.8075170

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893 5.4522550

894 0.4679876

895 -1.4120250

896 0.8617564

897 4.1463170

898 0.4943333

899 4.0820020

900 1.4941720

901 3.0654410

902 2.0893530

903 4.6129180

904 -0.9807226

905 -1.2725610

906 16.8677500

907 -4.5625640

908 -4.1321920

909 8.6668800

910 -4.3972830

911 -0.4710846

912 7.8886410

913 8.2663650

914 4.3419280

915 0.9895400

916 8.3991150

917 -1.1295640

918 2.5701970

919 2.5821440

920 4.7158500

921 -1.0208960

922 -19.8211200

923 2.3042310

924 -3.8045120

925 0.8292274

926 8.1339860

927 -1.3028380

928 0.5400656

929 6.0564000

930 2.4222210

931 4.3488170

932 3.7853010

933 2.0988350

934 1.6702800

935 0.6367315

936 4.2724200

937 -0.3473805

938 0.3008780

939 -14.7577800

940 2.9947610

941 2.3008640

942 3.3951660

943 -11.4083500

944 -2.8242140

945 13.2777800

946 -4.2229460

947 4.0895310

948 4.1976240

949 7.1750960

950 -3.4546180

951 6.2232280

952 -2.7462780

953 15.5325200

954 1.7748360

955 -1.7733650

956 5.5811700

957 2.3191070

958 6.4017700

959 3.7322280

960 -4.1282150

961 3.9341060

962 -2.5570020

963 2.0918350

964 9.4620460

965 3.9751300

966 0.8683450

967 3.8669880

968 0.5423225

969 -1.4410900

970 37.1736400

971 3.6619990

972 4.0481770

973 1.1793330

974 -9.1600740

975 7.5352050

976 -1.2723400

977 7.2291550

978 4.2717460

979 1.7856510

980 1.8956610

981 3.2202280

982 2.4438640

983 3.3040640

984 8.7162900

985 1.8283280

986 3.6376400

987 2.1586790

988 0.6155265

989 1.2892400

990 9.2530330

991 2.8727830

992 -0.4578069

993 0.6552883

994 -1.4477770

995 2.2194670

996 2.7908750

997 0.7566721

998 4.7322400

999 0.9247740

1000 1.3725580

> data1=read.csv("/Users/TariesW/Desktop/ECON 345/HW 1/One Y Column.txt",header=F)

> dim(data1)

[1] 1000 1

> length(data1)

[1] 1

> colMeans(data1)

V1

3.804855

> colMedians(data1)

V1

2.093885

> summary(data1)

V1

Min. :-256.1954

1st Qu.: -0.4327

Median : 2.0939

Mean : 3.8049

3rd Qu.: 4.6133

Max. :1203.0640

>