```
/*****************主教材各章例题SAS程序************/
/***************第十一章*****************/
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/****例11-1，相关系数 95%置信区间***************/
data a11_1;
  input x y;
  cards;
0      14.15
0      11.13
0      7.25
0      5.19
0      4.15
0      3.29
0      2.26
0      0.01
28.76  3.27
48.54  3.34
57.94  4.28
69.18  7.2
225.41 14.16
187.89 7.2
74.78  9.27
74.67  14.1
86.09  9.26
75.89  2.2
116.33 5.27
128.58 5.26
178.42 9.19
177.38 13.24
204.63 16.15
215.99 14.16
206.9  0.03
247.29 5.17
289.54 11.18
306.31 19.1
327.23 11.15
358.32 11.13
389.22 19.12
419.35 20.05
426.85 21.33
426.9  19.18
458.04 17.09
468.34 20.01
577.52 24.24
588.95 19.06
;
run;
proc corr data=a11_1 outp=corr;
  var x y;
run;
data corr_ci;
  set corr (rename=(x=corr) drop=y _name_);
```

```
  retain n;
  if _type_='N' then n=corr;
  if _type_='CORR'and corr ^= 1;
  fishersz=0.5*(log(1+corr)-log(1-corr)); *Fisher Z transformation;
  sigmaz=1/sqrt(n-3);
  *variance;
  l95=fishersz-1.96*sigmaz;
  *α=0.05, i.e. at 95% level;
  u95=fishersz+1.96*sigmaz;
  l95=(exp(2*l95)-1)/(exp(2*l95)+1);
  u95=(exp(2*u95)-1)/(exp(2*u95)+1);
proc print;
run;

/****例11-1续，见例11-1***************/


/****例11-2，回归系数 95%置信区间****************/
proc reg data=a11_1;
  model y = x/clb;
run;

/****例11-2续，见例11-2****************/
```