

```
data bg;
input pop $ fbg pbg tot_c x1;
cards;
    1  94 123 168 45
    1  96 129 172 15
    1  93 125 171 45
    1  97 128 175 15
    1  71 101 162 75
    1  96 126 174 15
    1  97 129 175 15
    1  85 113 164 75
    1  93 123 168 45
    1  84 115 164 75
    1  88 119 167 45
    1  96 127 169 45
    1  82 113 157 75
    1 101 131 173 15
    1  88 119 147 75
    2 113 143 222  0
    2 106 136 223  0
    2 113 144 225  0
    2 116 147 229  0
    2 105 135 212  0
    2 128 160 211  0
    2 101 132 221  0
    2 112 144 220  0
    2 109 139 230  0
    2 123 153 229  0
    2 133 163 211  0
    2 117 149 211  0
    2 108 139 212  0
    2 117 148 214  0
    2 114 143 214  0
;
proc sort data=bg;by pop;
proc means data=bg n min max mean stddev stderr;
var fbg pbg tot_c x1;
proc means data=bg n min max mean stddev stderr;
var fbg pbg tot_c x1;
by pop;
proc ttest data=bg;
class pop;
```

```
var fbg pbg tot_c ;
run;
```

The MEANS Procedure

Variable	N	Minimum	Maximum	Mean	Std Dev	Std Error
fbg	30	71.0000000	133.0000000	102.5333333	14.4597738	2.6399814
pbg	30	101.0000000	163.0000000	133.2000000	14.6013698	2.6658332
tot_c	30	147.0000000	230.0000000	193.0000000	27.3584129	4.9949400
x1	30	0	75.0000000	22.5000000	28.8799537	5.2727340

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----- pop=1 -----

The MEANS Procedure

Variable	N	Minimum	Maximum	Mean	Std Dev	Std Error
fbg	15	71.0000000	101.0000000	90.7333333	7.7778685	2.0082370
pbg	15	101.0000000	131.0000000	121.4000000	8.1573805	2.1062266
tot_c	15	147.0000000	175.0000000	167.0666667	7.5731355	1.9553752
x1	15	15.0000000	75.0000000	45.0000000	25.3546276	6.5465367

----- pop=2 -----

Variable	N	Minimum	Maximum	Mean	Std Dev	Std Error
fbg	15	101.0000000	133.0000000	114.3333333	8.6161532	2.2246812
pbg	15	132.0000000	163.0000000	145.0000000	8.7586692	2.2614787
tot_c	15	211.0000000	230.0000000	218.9333333	7.2058178	1.8605341
x1	15	0	0	0	0	0

The TTEST Procedure

## Statistics

Variable	pop	Lower CL		Upper CL		Lower CL		Upper CL	
		N	Mean	Mean	Mean	Std Dev	Std Dev	Std Dev	Std Err
fbg	1	15	86.426	90.733	95.041	5.6944	7.7779	12.266	2.0082
fbg	2	15	109.56	114.33	119.1	6.3081	8.6162	13.589	2.2247
fbg	Diff (1-2)		-29.74	-23.6	-17.46	6.5135	8.2077	11.101	2.997
pbg	1	15	116.88	121.4	125.92	5.9722	8.1574	12.865	2.1062
pbg	2	15	140.15	145	149.85	6.4125	8.7587	13.813	2.2615
pbg	Diff (1-2)		-29.93	-23.6	-17.27	6.7164	8.4634	11.446	3.0904
tot_c	1	15	162.87	167.07	171.26	5.5445	7.5731	11.944	1.9554
tot_c	2	15	214.94	218.93	222.92	5.2756	7.2058	11.364	1.8605
tot_c	Diff (1-2)		-57.4	-51.87	-46.34	5.8659	7.3918	9.997	2.6991

## T-Tests

Variable	Method	Variances	DF	t Value	Pr >  t
fbg	Pooled	Equal	28	-7.87	<.0001
fbg	Satterthwaite	Unequal	27.7	-7.87	<.0001
pbg	Pooled	Equal	28	-7.64	<.0001
pbg	Satterthwaite	Unequal	27.9	-7.64	<.0001
tot_c	Pooled	Equal	28	-19.22	<.0001
tot_c	Satterthwaite	Unequal	27.9	-19.22	<.0001

## Equality of Variances

Variable	Method	Num DF	Den DF	F Value	Pr > F
fbg	Folded F	14	14	1.23	0.7070
pbg	Folded F	14	14	1.15	0.7939
tot_c	Folded F	14	14	1.10	0.8550