

Marie Wallmark
MSDS 6371

Questions:

1. Results from the ANOVA test of F-statistics and P-value of $<.0001$ suggest significant evidence that at least one of the five population distributions is different. We would reject the null hypothesis that the population means are the same. Further testing is required to determine which of the observed groups is different.
2. With $\text{CHI-square} < .0001$ from a nparlway test, we would reject the null hypothesis. I trust the results of both the permutation test and the ANOVA test.

Note: confidence level of .05 for both test

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if educ = ">16" then year =5;
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17     13-15   43000
18     13-15   120000
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22     16      45300
29     12      85000
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39     12      67000
41     13-15   120000
42     12      45000
44     12      7200
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12088	16	37000
12089	>16	40000
12090	12	30000
12092	16	30000
12093	12	82000
12097	12	54000
12098	13-15	53000
12102	16	100000
12104	13-15	36323
12106	>16	120000
12110	16	91000
12116	16	90000
12119	>16	45000
12122	<12	30000
12125	12	42000
12126	12	21000
12128	12	30000
12129	16	39500
12130	12	24000
12131	12	23000
12133	12	11560
12135	<12	22000
12138	13-15	21000
12139	12	12600
12140	13-15	45000

```

;
proc print;
run;
proc print data=futureinc;run;
ods html;
proc anova data=futureinc;
class educ;
model income2005 = educ;
run;
ods html;
PROC NPAR1WAY DATA=futureinc WILCOXON scores=data;
CLASS educ;
EXACT scores=data / MC;
VAR income2005;
run;

```

```
ods html close;
```

```
ODS PDF FILE='futureinc.pdf';
```

```
ODS PDF CLOSE;
```