

sexo\_jefe ing\_cor

1	67950.13
1	21016.46
1	43289.11
1	41065.64
1	17054.33
1	26090.15
1	57718.03
1	35122.71
1	37905.54
1	28397.16
1	30067.31
1	34615.38
1	6545.67
1	35188.51
1	43278.66
1	100726.2
1	96221.3
1	36160.14
1	12870.48
1	15516.39
1	23258.91
1	15467.55
1	13868.84
1	20806.86
1	21931.97
1	40597.82
1	20448.8
1	243902.5
1	47818.65
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1	104508.2
1	43227.73
1	73554.72
1	31758.74
1	18635.86
1	57196.72
1	29090.16
1	43942.83
1	25516.48
1	25155.73
1	19520.84
1	71681.25
1	35176.21
1	7650.86

#### F-Test Two-Sample for Variances

	Variable 1	Variable 2
Mean	45782.65273	34812.54706
Variance	7540210629	835596379.1
Observations	506	160
df	505	159
F	9.023747372	
P(F<=f) one-tail	1.68E-43	
F Critical one-tail	1.244612809	

Se puede observar que con un nivel de confianza de 0.01 o 1% las varianzas entre los ingresos de los hombres y mujeres no son iguales.

$$H_0: \sigma_{hombres}^2 = \sigma_{mujeres}^2$$

$$H_a: \sigma_{hombres}^2 \neq \sigma_{mujeres}^2$$

Al calcular el estadístico de prueba y obtener el p valor concluimos que se rechaza hipótesis nula, significando que la varianza en los ingresos de hombres y mujeres no es igual y eso es lo que sugiere nuestra hipótesis alternativa

1 8983.39  
1 48073.76  
1 44360.64  
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1 35095.09  
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1 57250.81  
1 31008.18  
1 91243.54  
1 50803.27  
1 35508.19  
1 39290.17  
1 36737.7  
1 31499.99  
1 17459  
1 38852.45  
1 15909.82  
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2 34633.58  
2 16976.27  
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2 72754.2  
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2 49127.61  
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2 22010.86  
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 2 111884.6  
 2 33462.52  
 2 15656.67  
 2 32939.81  
 2 35094.31  
 2 20665.49  
 2 242936.9  
 2 11379.13  
 2 20275.41

# Anova: Single Factor

## SUMMARY

Groups	Count	Sum
sexo_jefe	666	826
ing_cor	666	28736029.81

## ANOVA

Source of Variation	SS	df
Between Groups	6.20E+11	1
Within Groups	3.96E+12	1330
Total	4.58E+12	1331

2 16348.51  
2 11690.85  
2 10589.5  
2 19061.5  
2 36125.48  
2 11555.23  
2 28795.07  
2 20975.86  
2 20347.82































Average	Variance
1.24024	0.182799
43147.19	5.95E+09

MS	F	P-value	F crit
6.20E+11	208.4477	5.29E-44	3.84846
2.97E+09			