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| EXERISE 1:  > grpa<-c(72,75,78,71,74,77,76,73,75,78)  > grpb<-c(68,71,73,69,72,70,72,67,71,74)  > f\_test<-var.test(grpa,grpb)  > print(f\_test)  F test to compare two variances  data: grpa and grpb  F = 1.1995, num df = 9, denom df = 9, p-value = 0.7908  alternative hypothesis: true ratio of variances is not equal to 1  95 percent confidence interval:  0.2979504 4.8293671  sample estimates:  ratio of variances  1.199546  > if(f\_test$p.value<0.05){  + cat("Reject null hypothesis:Variances are significantly different\n")  + }else{  + cat("Fail to reject null hypothesis:Variances are not significantly different\n")  + }  Fail to reject null hypothesis:Variances are not significantly different  EXERCISE 2: |
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| |  | | --- | | > observed<-matrix(c(50,30,20,25),nrow=2,byrow=TRUE)  > chi\_square\_test<-chisq.test(observed)  > print(chi\_square\_test)  Pearson's Chi-squared test with Yates' continuity correction  data: observed  X-squared = 3.1129, df = 1, p-value = 0.07768  > if(chi\_square\_test$p.value<0.05){  + cat("Reject null hypothesis:There is a significant association between variables\n")  + }else{  + cat("Fail to rject nullhypothesis:There is no significat association between variables\n")  + }  Fail to rject nullhypothesis:There is no significat association between variables | |