

D. Fraternity

We are interested in comparing the academic success of college students who belong to fraternal organizations with the academic success of those who do not belong to fraternal organization. The reason for the comparison centers on the recent concern that the fraternity members on the average are achieving academically at a lower level than the non-fraternal students. Random samples of size 15 are taken from each group.

The sample results are listed below:

Sample	Number	Mean	Variance
Fraternity Members	15	2.03	0.46
Non-Members	15	2.21	0.35

Test at the 0.05 level of significance, if indeed fraternal students achieve academically at a lower level than the non-fraternal students.

Provide the values / answers in the following format:

```
n(fratMembers) =  
n(nonFratMembers) =  
df(fratMembers) =  
df(nonFratMembers) =  
mean(fratMembers) =  
mean(nonFratMembers) =  
var(fratMembers) =  
var(nonFratMembers) =  
tails =  
significance level =  
confidence level =  
cv =  
t-value =
```

```
Decision / Conclusion:
```