## Subject: greater than X and less than Y Posted by bradbury on Thu, 28 Aug 2003 17:34:17 GMT

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Here is an easy one:

I can find the location of data in my array at the top and at the bottom of it's range. But how do I find the location of the data in the middle of this range.

example:

data=[10,35,11,5,17,5,24,13,22,30,8,20,1,16,19,31,29,3,23,33,37]

N=size(data,/N\_elements)

; returns a vector of subscripts that allows access ; to the elements of "data" in ascending order sort\_data=sort(data)

; returns "data" values in ascending order new\_data=data[sort\_data]

; calculates "data's" 66th percentile top66=new\_data(0.66\*N)

; returns vector with ones in place of values in ; top 66 percentile of "data" high66=data gt top66

; calculates "data's" 33rd percentile bot33=new\_data(0.33\*N)

; returns vector with ones in place of values in ; bottom 33 percentile of "data" low33=data It bot33

Using a similar method (or not) how would I create a "mid33," and thus gain access to the data in the range between the bottom 33rd and the upper 66th percentiles.

SO, I guess my problem is with using the operators "gt" and "lt."

Thanks very much, in advance...