Aha! Yes, that definitely explains it. I was questioning my sanity there for a minute. The following code, then, does what I was trying to do (which was basically to find random data sets that are the same size so Icould plot them against each other in some example code):

for i=0,25 do begin j=i & print, j, n_elements(cgdemodata(j)) & end

Thanks, Wayne for sleuthing this out...

-Jeremy.