
Subject: Having trouble stopping a loop (or loop de loop de loop)

Posted by [mbweller](#) on Tue, 26 Aug 2008 02:59:21 GMT

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Hi again everyone,

Here is my rather clunky code (and I know it is rather inefficient):

```
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while e_t lt 2 do begin
  for x=4e003, 20e003, 4e003 do begin
    for c=0.006, 0.01, 0.004 do begin
      for o=(50*!pi/180), (70*!pi/180), (10*!pi/180) do begin
        v= (a*x)
        ind_small = where(file[1,*] lt 2*x,count)
        if count eq 0 then te_small=0
        if count gt 0 then begin
          ext_small = file[*,ind_small]
          le_small= ext_small[1,*]
          te_small = total(le_small^3)
        endif

        ind_large = where(file[1,*] ge 2*x,count)
        if count eq 0 then te_large=0
        if count gt 0 then begin
          ext_large = file[*,ind_large]
          le_large= ext_large[1,*]
          te_large = total(le_large)
        endif

        kns=(sin(o)*cos(o)/v)
        knl=(c*cos(o)*x/a/sin(o))

        ens= (kns*c/u)*te_small
        enl= knl*te_large
        e_t= ens+enl
        print,x,c,o,e_t
        if e_t ge 0.45 && e_t le 0.9 then openw,1,'g:\Mars_tectonics
\IDL_programs\paper_m_data\alba_eflank.txt',
        printf,1,x,c,o,e_t,format='(3f9.3)'
        close, 1
      endfor
    endfor
  endfor
endwhile
-----
```

I have a few issues here that i could use some advice for:

1.) I'm not sure how to start and more importantly, end this loop. I chose: while e_t lt 2 do begin to start it. The problem is that this loop will never be greater than 2 so it will never end and it just keeps repeating values ad nauseum in the output file.

I don't want it repeating but I'm not certain how to start it and stop it to allow for no repeated values.

2.) for c=0.006, 0.01, 0.004 do begin, I watch the output, but I don't see it change.

3.) i must of screwed something up in this segment:
if e_t ge 0.45 && e_t le 0.9 then openw,1,'g:\Mars_tectonics
\IDL_programs\paper_m_data\alba_eflank.txt',
printf,1,x,c,o,e_t,format='(3f9.3)'

because it worked before, but now I keep getting an error about unable to close 1, or somesuch thing (just switched to compilation error).

As always, I appreciate any help that you may provide. After all I wouldn't be asking this question if it weren't for all your help :)

Thanks,
~Matt
