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Subject: Re: probable mistake in IDL manual  
Posted by [davidf](#) on Fri, 28 Nov 1997 08:00:00 GMT  
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Saeid Zoonematkermani (szoonem@astro.sunysb.edu) is puzzled when he writes:

```
> I was reading "Building IDL Applications" manual (version 5) and noticed
> the procedure on p. 76 which is supposed to count the number of times that
> the word "dog" appears in the string "dog cat duck rabbit dog cat dog";
>
> -----
> pro Animals
> animals = 'dog cat duck rabbit dog cat dog'
> i = 0
> cnt = 0
> while (i ne -1) do begin
>   i = strpos(animals,'dog', i)
>   if (i ne -1) then cnt = cnt + 1
> endwhile
> print, 'Found ',cnt, "occurrences of 'dog'"
> end
> -----
>
> When I read it, it struck me as being wrong. I tested it later and it
> seems to have gone into an infinite loop (as I suspected it would). Is it
> some thing VERY obvious that I am missing or is it simply wrong?
```

This reminds me of the kind of code I often write on this newsgroup. The kind where just after you hit the 'SEND' button, you think, "Ho boy, THAT code ain't gonna work!"

This code is obviously (well, after you study it for 10 minutes, like I did) wrong. Since the first occurrence of the string 'dog' occurs at position 0, you are going to be finding that particular string for a LONG time. :-)

The code *should* look like this:

```
pro Animals
animals = 'dog cat duck rabbit dog cat dog'
I = 0
cnt = 0
while (I ne -1) do begin
  I = strpos(animals,'dog', I)
  print, I
  if (I ne -1) then BEGIN
    I = I + 1 ; <----Fix is here!
```

```
    cnt = cnt + 1
  endif
endwhile
print, 'Found ',cnt, " occurrences of 'dog'"
end
```

Cheers,

David

P.S. Take my word for it, it is really hard to get all the code in a book correct. It is better to think of these odd occurrences and typos as that damn coyote at work again and try to learn from them, as you are. :-)

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