Subject: Re: Array subscript question Posted by John-David T. Smith on Fri, 03 Mar 2000 08:00:00 GMT View Forum Message <> Reply to Message

```
"J.D. Smith" wrote:
>
  "Kenneth P. Bowman" wrote:
>>
>> Can someone explain this behavior to me? I can't find anything in the
>> documentation that states that repeated subscripts are handled
>> differently.
>>
>> IDL> a = FINDGEN(5)
>> IDL> i = [1, 2, 3]
>> IDL> a[i] = a[i] + 10.0
>> IDL> PRINT, a
       0.00000
                               12.0000
                                           13.0000
                                                      4.00000
                   11.0000
>>
>>
>> This is the behavior I expect.
>>
>> IDL> a = FINDGEN(5)
>> IDL> i = [2, 2, 2]
>> IDL> a[i] = a[i] + 10.0
>> IDL> PRINT, a
       0.00000
                   1.00000
                               12.0000
                                           3.00000
                                                      4.00000
>>
>>
>> Why does it only do the operation *once* when
>> IDL> HELP, a[i]
>> <Expression> FLOAT
                              = Array[3]
>>
>> IDL> a = FINDGEN(5)
>> IDL> i = [2, 2, 2]
\Rightarrow IDL> a[i] = a[i] + [10.0, 10.0, 10.0]
>> IDL> PRINT, a
       0.00000
                   1.00000
                               12.0000
                                           3.00000
                                                      4.00000
>>
> A fast solution (better than loops in many cases), is listed in the manual using
> the histogram function (everyone's favorite), though it works for integer (long
> or otherwise) types only.
Actually, that's not really true. The sun is out and temporarily incapacitated
by reasoning abilities.
```

As long as your i vector is >=0 and <n_elements(A), you can do:

a=a+histogram(i,MIN=0,MAX=n_elements(a)-1)*10.

JD

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