Subject: Re: Setting values in an array without usings loops
Posted by R.G. Stockwell on Fri, 25 Jul 2003 15:35:04 GMT
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"Nancy W. Pearson" <pearson@elbereth.uchicago.edu> wrote in message news:bfrfujppd1@bob.news.rcn.net...
> Johan Marais wrote:
>> I want to create a circle consisting out of ones but without the use of for
>> loops. here is how I do it with the loops. Anyone that can help?
>>
>> r = 33
>> mask = intarr(2*r,2*r)
>> for m=0,2*r-1 do begin
>> for n=0,2*r-1 do begin
>> if ((m-r)^2 + (n-r)^2) gt r^2 then mask[m,n] = 1
>> endfor
>> endfor
>
> IDL> m = shift(dist(2*r),r,r) gt r

Wheeet! Illegal use of hidden "for loop"! 10 yard penalty and loss of down.
:)

function dist....
```
for i=0L, m1/2 do begin ;Row loop
 y = sqrt(x + i^2.) ;Euclidian distance
 a[0,i] = y ;Insert the row
 if i ne 0 then a[0, m1-i] = y ;Symmetrical
endfor
```

Cheers,
bob

PS
yeah, i suppose every array function has a "hidden for loop" if you look deep enough.