
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:bfrfuj\$ppd\$1@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

Wheeeet! 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.