Subject: Re: Help
Posted by Pavel Romashkin on Fri, 21 May 1999 07:00:00 GMT
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The task is not strictly defined: the two matrices Tri provided are different in size. Therefore, I treated it as a general problem. Here is a 1-line solution for any size matrix:

print, (bindgen(k*m+m-1, x) mod m) eq 0

Here,
m is the length of the cycle within a row,
k is an integer multiplier to obtain the necessary row length,
x - arbitrary number of rows.

Example with m=4, k=3, x=5:

```
IDL> print, (bindgen(3*4+3, 5) mod 4) eq 0
  1   0   0   0   1   0   0   0   1   0   0   0   1   0   0
  0   1   0   0   0   1   0   0   0   1   0   0   0   1   0
  0   0   1   0   0   0   1   0   0   0   1   0   0   0   1
  0   0   0   1   0   0   0   1   0   0   0   1   0   0   0
  1   0   0   0   1   0   0   0   1   0   0   0   1   0   0
```

Resulting matrix can be trimmed in any fashion you desire. Or, maybe I could just type matrices in, if they were needed precisely and only in the way Tri sent them?...
Cheers,
Pavel

Tri VU KHAC wrote:

> Hi folks,
>
> I'm looking for an efficient way to produce the matrix of type (I woulk
> like to be able to avoid the FOR statement)
>
> 0 1 0 1 0 1 0 1
> 1 0 1 0 1 0 1 0
> 0 1 0 1 0 1 0 1
> 1 0 1 0 1 0 1 0
>
> OR
>
> 1 0 0 1 0 0 1
> 0 1 0 0 1 0 0
> 0 0 1 0 0 1 0
> 1 0 0 1 0 0 1
>

> ETC.
>
> Best regards,
> Tri.
