Subject: Re: Combinatorial Posted by Paul Van Delst[1] on Fri, 27 Aug 2004 14:12:04 GMT View Forum Message <> Reply to Message

```
Kenneth Bowman wrote:
```

```
    In article <e8ecd642.0408270539.19ddd96a@posting.google.com>,
    andrade_bahia@yahoo.com.br (Adilson) wrote:
```

> >> Dear all.

>> Would like to know as I make to effect combinations in the IDL I have

- >> a problem where I want to execute a fixed combination of elements
- >> contained in a vector. EX: A=[0,1,2,3,4,5] --> six elements I want
- >> to make combinations 3x3 of the elements contained in. The formed
- >> vector is of 6!/3!\*(6-3)! = 20 elements. Example of the vector to be
- >> formed->[0,1,2],[0,1,3]... [3,4,5]. In the total of 20 combinations.
- >> Which the best form to execute this operation? If you to be able to
- >> help me would be grateful.
- >> I subscribe myself with the highest consideration.
- >> Thanks in advance for your help.

>>

>> Adilson

>

Not elegant, but I think this does what you want.

Looks pretty bloody elegant to me after the dreck I posted! :o)

```
>
> IDL> n = 6
> IDL> comb = lonarr(3)
> IDL> for i = 0, n-1 do for j = i+1, n-1 do for k = j+1, n-1 do comb = j+1, n-1 do com
> [[comb], [i,j,k]]
> IDL> comb = comb[*,1:*]
                IDL> print, comb
                                                                                     0
                                                                                                                                                                                                                                        2
                                                                                                                                                               1
>
                                                                                     0
                                                                                                                                                               1
                                                                                                                                                                                                                                         3
>
                                                                                                                                                               1
                                                                                     0
                                                                                                                                                                                                                                         4
>
                                                                                     0
                                                                                                                                                               1
                                                                                                                                                                                                                                         5
>
                                                                                                                                                               2
                                                                                                                                                                                                                                         3
                                                                                     0
>
                                                                                                                                                              2
                                                                                     0
                                                                                                                                                                                                                                         4
>
                                                                                                                                                               2
                                                                                     0
                                                                                                                                                                                                                                         5
                                                                                                                                                               3
                                                                                     0
                                                                                                                                                                                                                                         4
>
                                                                                                                                                               3
                                                                                                                                                                                                                                         5
                                                                                     0
>
                                                                                                                                                               4
                                                                                                                                                                                                                                         5
                                                                                     0
>
                                                                                     1
                                                                                                                                                              2
                                                                                                                                                                                                                                         3
>
                                                                                                                                                              2
                                                                                      1
                                                                                                                                                                                                                                        4
>
```

2

5

1

```
3
                    4
       1
>
       1
             3
                    5
5
4
5
5
5
>
             4
       1
>
            3
      2
      2
             3
>
      2
             4
>
       3
             4
>
> Ken Bowman
```