
Subject: Re: Combinatorial

Posted by [K. Bowman](#) on Fri, 27 Aug 2004 13:51:29 GMT

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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.

```
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 =
[[comb], [i,j,k]]
IDL> comb = comb[:,1:*]
IDL> print, comb
  0      1      2
  0      1      3
  0      1      4
  0      1      5
  0      2      3
  0      2      4
  0      2      5
  0      3      4
  0      3      5
  0      4      5
  1      2      3
  1      2      4
  1      2      5
  1      3      4
  1      3      5
  1      4      5
  2      3      4
  2      3      5
  2      4      5
```

3 4 5

Ken Bowman
