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Subject: S: Combinatorial Algorithm

Posted by [purschke](#) on Mon, 12 Jun 1995 07:00:00 GMT

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i'm looking for an IDL algorithm that, given an array A of e.g. ints, returns all possible combinations of elements of A with at least 1 element and no ordering repetition ([1,2,3] is same as [2,3,1] and should be contained only once in the resulting 2D-Array.

Has anyone out there written anything similar? Or do you know of any IDL built-in functions that can help to solve this?

Example:

AllCombs([1,2,3]) = [[1,0,0], [2,0,0], [3,0,0], [1,2,0], [1,3,0], [2,3,0], [1,2,3]]  
with 0 being a special element that cannot be contained in the input array.

Thanks in advance

Tim Purschke

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