



**June 5**  
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**Two Techniques for Solving Recurrences**  
**Arising in Compositions of Integers**

*We will discuss two techniques for solving two different recurrences. The first recurrence arises in a process of computing the function for the number of Carlitz compositions of positive integer  $n$  such that part size  $j$  has multiplicity  $m$ . The second one occurs in a pursuit of a generating function of 1-composition of  $n$  not using part  $j$ .*