

These ideas are not new; but the author has sought to make a systematic use of them in developing a theory of number sequences. Two such fundamental number sequences are considered, each of which is a generalization of a sequence of binomial coefficients. Several important sets of numbers can be expressed in terms of these fundamental sequences, as for instance the set of figurate numbers in which the r th term of the n th row equals the sum of the first r terms of the $(n - 1)$ th row, the first row being 1, 0, 0, \dots . A general theory of the two fundamental sequences is developed and the results are applied to several questions in number theory; as, for instance, the solution of congruences and diophantine equations. The methods employed are such that they cannot be explained briefly.

R. D. CARMICHAEL.

NOTES.

BEGINNING with volume 20 (1913), the *American Mathematical Monthly* will be in charge of an editorial board composed of representatives of nine supporting institutions, together with Professor B. F. FINKEL, the founder of the journal and editor since its inception in 1894. The contributing institutions are Colorado College and the Universities of Chicago, Illinois, Missouri, Minnesota, Nebraska, Kansas, Indiana, and Iowa. The editorial representatives are Professors FLORIAN CAJORI, H. E. SLAUGHT, G. A. MILLER, E. R. HEDRICK, W. H. BUSSEY, W. C. BRENKE, C. H. ASHTON, R. D. CARMICHAEL, and R. P. BAKER. The managing editor is Professor Slaughter.

It will be the editorial policy of the *Monthly* to make a strong appeal to the great body of teachers in the collegiate and advanced secondary fields, not only directing attention to questions of improvement in teaching but also fostering the development of the scientific spirit among large numbers who are not now reached by the more highly technical journals. The publication of original papers will be continued, but greater attention than heretofore will be given to pedagogical and historical questions of interest and value to teachers of collegiate mathematics. An index of volumes 1-19 will soon be issued.