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An  $m$ -dimensional hypercube  $A$ ,  $m \geq 1$ , is an array of  $n^m$  elements belonging to a field; the elements are denoted by  $A_{ij\dots u}$  where there are  $m$  subscripts, and each varies from 1 to  $n$ . Knuth (J. Algebra 2 (1965), 182-217) introduced hypercubes as a generalization of the display of the structure constants of a finite semifield. We examine the semigroups formed by these under binary compositions suggested by Knuth. (Received August 31, 2020)