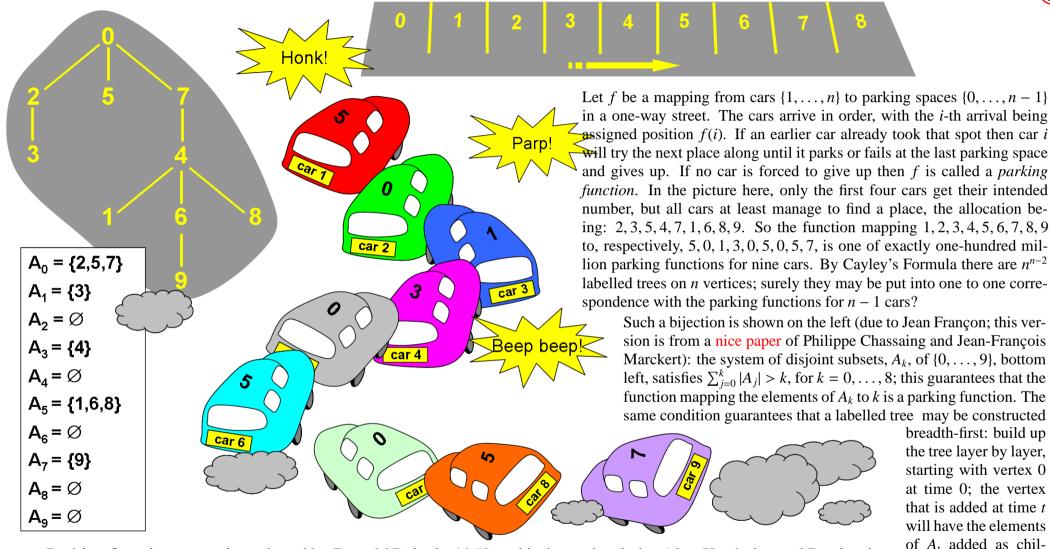
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The Parking Function Formula The number of parking functions of order n is $(n + 1)^{n-1}$.





Parking functions were introduced by Ronald Pyke in 1959 and independently by Alan Konheim and Benjamin Weiss in the context of data storage. They have come to be studied intensively as mathematical objects in their own right.

breadth-first: build up the tree layer by layer, starting with vertex 0 at time 0; the vertex that is added at time twill have the elements of A_t added as children when the next layer is constructed.

Web link: www.maths.qmul.ac.uk/~pjc/preprints/art.pdf is a nice glimpse of how professional mathematicians respond to stimulating ideas such as the above. And here is the result: www.combinatorics.org/ojs/index.php/eljc/article/view/v15i1r92.

Further reading: *Enumerative Combinatorics*, Vol. 2, by R.P. Stanley, CUP, 2001, Chapter 5 (exercises).



