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we study the spectral properties of the Perron–Frobenius operator of the one-dimensional maps Based on the moment method. In this note we make an investigation into the properties of self-similar measures related to the theory of orthogonal polynomials. Numerical investigation of a particular family of maps shows that the spectrum generates the invariant measure. Analytical considerations generalize the results to a broader class of the maps. Some examples of this method are presented through out the paper. (Received April 29, 2010)