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The paper is, in essence, a critical comment on the results of the recent paper by Reyes and del Castillo-Musot, quoted as ref. [15] and devoted to the Coulombic bound state construction in quantum mechanics in the non-standard one dimensional case. The source of the error in the spectral formula of ref. [15] is identified as related to the well known strongly singular character of this one-dimensional model in the origin. By the two different methods the correct solution is derived and shown to coincide, in essence, with the current and well known exactly solvable textbook example on half axis.