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Title: On properties derived from different types of asymptotic distribution functions of ratio sequences

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Let $X = \{x_1 < x_2 < \dots\}$ be an infinite subset of positive integers and $X_n = \left(\frac{x_1}{x_n}, \frac{x_2}{x_n}, \dots, \frac{x_n}{x_n}\right)$, $n = 1, 2, \dots$. In this paper we give new necessary and sufficient conditions for X for that the sequence of blocks X_n has an asymptotic distribution function.

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