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Title: Distribution functions of ratio sequences, III

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In this paper we study the distribution functions g(x) of the sequence of blocks $X_n = \left(\frac{x_1}{x_n}, \frac{x_2}{x_n}, \ldots, \frac{x_n}{x_n}\right), n = 1, 2, \ldots$, where x_n is an increasing sequence of positive integers. Assuming that the lower asymptotic density \underline{d} of x_n is positive, we find the optimal lower and upper bounds of g(x). As an application, we also get the optimal bounds of limit points of $\frac{1}{n} \sum_{i=1}^{n} \frac{x_i}{x_n}, n = 1, 2, \ldots$

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