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A problem in covering progressions. (In English)

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Let $f_s(n)$ be the minimal size of a set $S \subseteq \{1, 2, \ldots, n\}$ possessing the property that $S \cap \{t, 2t, \ldots, st\} \neq \emptyset$ for $1 \leq t \leq n/s$. The authors make the asymptotics $f_s(n) \sim c_s n$ precise in the sense that they show that $c_s = \Theta(1/(s \ln s))$.

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