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On Special Numbers

A natural number n is special if in its prime factorizatation $n = p_1^{\alpha_1}, \ldots, p_k^{\alpha_k}$ we have all α_i distinct. Let $V(x)$ be the number of special numbers $\leq x$. We will show that there is a constant $c > 1$ such that $V(x) \sim \dfrac{cx}{\log x}$. We will make some remarks on determining the error term at the end. This is a joint work with Prof. M. Ram Murty.