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