For a finite group $G$, let $m(G)$ be the number of maximal subgroups of $G$, and let $h(n) = \max \{ m(G) \mid G \text{ is solvable and } |G| = n \}$. We present an upper bound $f(n)$ for $h(n)$ which improves existing upper bounds. We also identify values of $n$ for which $f(n) = h(n)$. (Received September 18, 2010)