1067-20-1096 Benjamin Newton* (newtonb@beloit.edu), Beloit College, 700 College St., Beloit, WI 53511. On the number of maximal subgroups of a finite solvable group. Preliminary report.

For a finite group G, let $\mathfrak{m}(G)$ be the number of maximal subgroups of G, and let $h(n) = \max{\mathfrak{m}(G)|G}$ 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)