1014-20-422 **Benjamin Newton*** (newton@math.wisc.edu), Department of Mathematics, University of Wisconsin-Madison, 480 Lincoln Drive, Madison, WI 53706, and **Bret Benesh** (benesh@math.harvard.edu), Department of Mathematics, One Oxford St., Cambridge, MA 02138. *A Classification of Certain Maximal Subgroups of Finite Symmetric Groups.*

Problem 12.82 of the Kourovka Notebook (a collection of unsolved problems in group theory) asks for all ordered pairs (n, m) such that the symmetric group S_n embeds in S_m as a maximal subgroup. One family of such pairs is obtained when $m = n + 1$. Results due to Kalužnin and Klin, and Halberstadt provided an additional infinite family. This paper answers the Kourovka question by producing a third infinite family of ordered pairs and showing that no other pairs exist. (Received September 15, 2005)