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Jennifer E Elder*, Jennifer.E.Elder@asu.edu. *Graphs of Reduced Words*. Preliminary report.

We are working on understanding the structure of the graph whose vertices are reduced words for a permutation w in \mathfrak{S}_n , and whose edges are related to braid or commutation moves from one word to another. We are working towards a lower bound on the number of braid classes for a permutation in relation to the size of the full set of reduced words. We will discuss the results that we have already completed, and the steps we still need to take to complete the problem. (Received March 02, 2020)