EX.2.2.6, Sauer3

Given the 1000×1000 matrix A, your computer can solve the 500 problems $Ax = b_1, \ldots, Ax = b_{500}$ in exactly one minute, using $A = LU$ factorization methods. How much of the minute was the computer working on the $A = LU$ factorization? Round your answer to the nearest second.