

**Algorithm Design**  
***M. T. Goodrich and R. Tamassia***  
John Wiley & Sons  
**Solution of Exercise R-6.2**

We know that  $m \leq n \cdot (n - 1)/2$  is  $O(n^2)$ . It follows, therefore, that  $O(\log(n^2)) = O(2\log n) = O(\log n)$ .