

**Algorithm Design**  
***M. T. Goodrich and R. Tamassia***  
John Wiley & Sons  
**Solution of Exercise C-14.19**

Create an  $n \times n$  array  $C$ , where  $C[i, j]$  corresponds to the comparison of  $x_i$  with  $x_j$  (being 0 if  $x_i < x_j$  and 1 otherwise). The maximum element corresponds to a row of all 1's. So use the algorithm from the previous problem to compute the AND of each row in constant time, and then in one more step identify the only row that has value 1 for its row-wise AND.