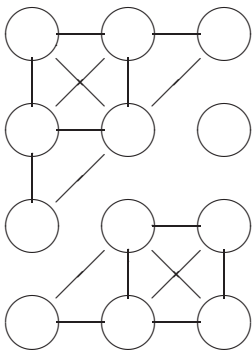


Algorithm Design
M. T. Goodrich and R. Tamassia
John Wiley & Sons
Solution of Exercise R-6.1



If G has 12 vertices and 3 connected components, then the maximum number of edges it can have is 45. This would be a fully connected component with 10 vertices (thus having 45 edges) and two connected components each with a single vertex.