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Their solutions define three different notions of “ central ” vertices. The distance matrix  $D$  can be computed rather efficiently e.g. using Dijkstra's algorithm with time complexity  $O(|V|^2 \ln |V|)$ , see e.g. Cormen et al. (1990). In many biological networks, the distance  $d(x,y)$  measures an informational separation rather than physical distance.

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The problems in this book have been selected from over 1,000 programming problems at the Universidad de Valladolid online judge, available at <http://online-judge.uva.es>. The judge has ruled on well over one million submissions from 27,000 registered users around the world to date. We have taken only the best of the best, the most fun, exciting, and interesting problems available.

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