

For randomized parallel algorithms, we recommend Alon, Babai and Itai (1986); Anderson (1987); Luby (1986) and Spirakis (1988).

A large batch of newly-published papers include Aiello, Rajagopalan and Venkatesan (1998); Albers (2002); Alberts and Henzinger (1995); Arora and Brinkman (2002); Bartal and Grove (2000); Chen and Hwang (2003); Deng and Mahajan (1991); Epstein, Noga, Seiden, Sgall and Woeginger (1999); Froda (2000); Har-Peled (2000); Kleffe and Borodovsky (1992); Klein and Subramanian (1997); Leonardi, Spaccamela, Presciutti and Ros (2001); Meacham (1981) and Sgall (1996).

## Exercises

- 11.1 Write a program to implement the randomized algorithm for solving the closest pair problem. Test your algorithms.
- 11.2 Use the randomized prime number testing algorithm to determine whether the following numbers are prime or not:  
13, 15, 17.
- 11.3 Use the randomized pattern matching algorithm on the following two strings:  
$$X = 0101$$
$$Y = 0010111$$
- 11.4 Use the algorithm introduced in Section 11-5 to determine whether 5 is a quadratic residue of 13 or not. Show an example in which you would draw a wrong conclusion.
- 11.5 Read Section 8-5 and 8-6 of Brassard and Bratley 1988.