## Exercise 5-1:

Create two examples where the obtained value r(C) by the algorithm is close to  $2r(C^*)$ . Create another two examples where the obtained value r(C) by the algorithm is close to  $r(C^*)$ . There is no constraint condition on the location of each center.

## Exercise 5-2:

Create two examples where the obtained value r(C) by the algorithm is close to  $2r(C^*)$ . Create another two examples where the obtained value r(C) by the algorithm is close to  $r(C^*)$ . There is the following additional constraint condition: Each center should be selected from the given sites.

## **Exercise 5-3**

Design a method to select the first site in the center selection algorithm (instead of random selection).