1 **public class** TowersOfHanoi

2 {

3 **public** **static** **void** main(String[] args)

4 {

5 hanoi(4, "A", "B", "C"); **//output the solution for four rings**

6 }

7

8 **public** **static** **void** hanoi(**int** nRings, String fromTower, String toTower,

9 String thirdTower);

10 {

11

12 **if**(nRings == 1) **//base case**

13 {

14 System.out.println("move one ring from tower " + fromTower +

15 " to tower " + toTower);

16 **return**;

17 }

18

19 **//general solution**

20 hanoi(nRings-1, fromTower, thirdTower, toTower); **//reduced problem**

21 System.out.println("move one ring from tower " + fromTower +

22 " to tower " + toTower);

23 hanoi(nRings-1, thirdTower, toTower, fromTower); **//reduced problem**

24 }

25 }

**Figure 9.11 The application TowersOfHanoi.**