1-1

Ispalindrome(string text)

1. Create stack st

2. for i<-0 to i<-text size

3. push text[i] in st

4. Create bool yes <- true

5. for i<-0 to i<-text size

6. if(text[i] isn't same st top)

7. yes <- false

8. break

9. pop st

10. if(yes is true)

11. print "회문입니다."

12. else

13. print "회문이 아닙니다."

1-3

Ispalindrome(string text)

1. Create deque dq

2. for i<-0 to i<-text size

3. push_back text[i] in dq

3. Create bool yes <- true

4. for i<-0 to i<-text size/2

5. if(dq.back isn't same dq.front)

6. yes<-false

7. break

8. pop_back dq

9. pop_front dq

10. if(yes is true)

11. print "회문입니다."

12 else

13. print "회문이 아닙니다."

2-1

HotPotato(player_list, num)

1. Create int playersNum

2. Create CircleQueue players

3. Initialize players

4. for i<-0 to i<-player_list size

5. Enqueue(players, player_list[i])

6. playersNum <- players.Max

7. while(playerNum >1)

8. Create int repeatNum <- num

9. while(repeatNum isn't 0)

10. Create string getPotato_player <- Dequeue(players)

11. Enqueue(players, getPotato_player)

12. repeatNum—

13. print Dequeue(players) " is out"

14. playersNum—

15 return Dequeue(players)

3-a-1

V0 : {V1, V4}

V1 : {V0, V2, V3}

V2 : {V1, V4}

V3 : {V1, V4}

V4 : {V0, V2, V3}

3-a-2

	V0	V1	V2	V3	V4
V0	0	1	0	0	1
V1	1	0	1	1	0
V2	0	1	0	0	1
V3	0	1	0	0	1
V4	1	0	1	1	0

3-b-1

0 : {1, 2, 3}

1 : {2, 3}

2 : {4}

3 : {0, 4}

4 : {1, 2}

5 : {4}

3-b-2

	0	1	2	3	4	5
0	0	1	1	1	0	0
1	0	0	1	1	0	0
2	0	0	0	0	1	0
3	1	0	0	0	1	0
4	0	1	1	0	0	0
5	0	0	0	0	1	0

3-b-3

진입차수 가장 낮은 정점 : 5 -> 차수 = 0

진입차수 가장 큰 정점 : 2, 4 -> 차수 = 3

진출차수 가장 낮은 정점 : 2, 5 -> 차수 = 1

진출차수 가장 큰 정점 : 0 -> 차수 = 3