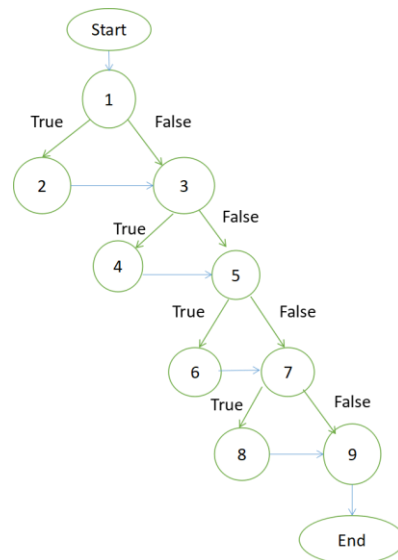


# 1) addGame

Block	Lines	Entry	Exit
1	26	26	26
2	27	27	27
3	29	29	29
4	30	30	30
5	32	32	32
6	33	33	33
7	35,36	35	36
8	37	37	37
9	39,40,41,42,43,44,45,46,47,48	39	48



## 1)addGame

TR for Edge

Coverage :(1,2)(1,3)(2,3)(3,4),(3,5)(4,5)  
(5,6)(5,7)(6,7)(7,8)(7,9)(8,9)

Test Path:

[1,3,5,7,9]: int maxPlayers=0

[1,3,5,7,9]: int gameCounter=25

[1,3,5,7,9]: String name=null

[1,3,5,7,9]: Sting name =Rugby(same game twice)

[1,2,3,4,5,7,9]:String name=Rugby int maxPlayers=70

[1,2,3,4,5,6,7,8,9]:String name=Rugby int maxPlayers=70

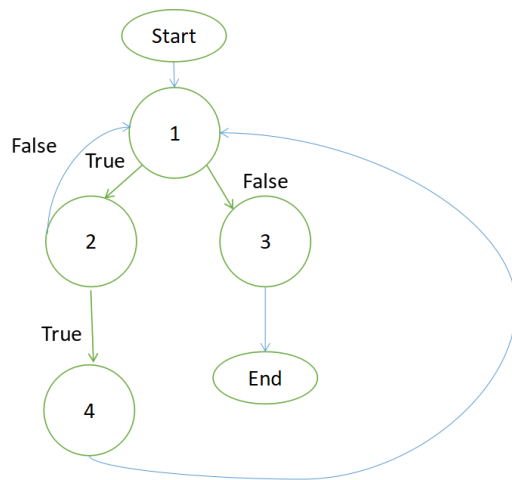
```

19 19 /**
20 20 * This method adds game into gamelist
21 21 * @param name : sets name of the game
22 22 * @param maxPlayers : sets max players involved in the game
23 23 * @return 0 if game added successfully, otherwise error code
24 24 */
25 25 public int addGame(String name,int maxPlayers){
26 26     if(maxPlayers<=0){
27 27         return 100;
28 28     }
29 29     if(gameCounter > (MAX_GAMES)){
30 30         return 98;
31 31     }
32 32     if(name==null){
33 33         return 99;
34 34     }
35 35     Game game = searchGame(name);
36 36     if(game != null){
37 37         return 101;
38 38     }
39 39     game = new Game(name, maxPlayers+1);
40 40     gameList[gameCounter] = game;
41 41     GameAssociation association = new GameAssociation();
42 42     association.gamename = name;
43 43     association.daynames = new String[MAX_DAYS];
44 44     association.playerNames = new String[MAX_PLAYERS];
45 45     gameAssociationList[gameCounter++] = association;
46 46     gameCounter++;
47 47
48 48     return 0;
49 49 }
50 50

```

## 2) searchGame

Block	Lines	Entry	Exit
1	57	57	57
2	58,59	58	59
3	63	63	63
4	60	60	60



### 2)searchGame

TR for Edge Coverage : (1,2)(1,3)(2,4),(2,1)(4,1)

Test Path:

[1,3] : addGame(soccer,22);  
searchGame(Football);

[1,2,1,3]: addGame(soccer,22);  
searchGame(soccer);

[1,2,4,1,3]: addGame(soccer,22);  
searchGame(soccer);

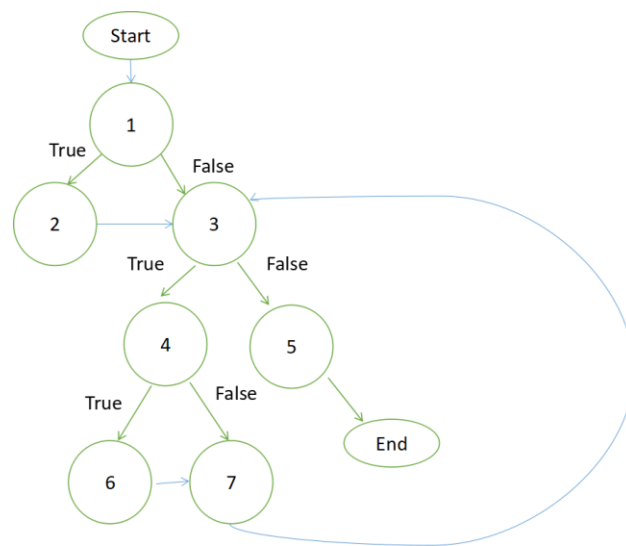
```

51 51 /**
52 52  * This method is used to search game by name
53 53  * @param name : used to search game by name
54 54  * @return game object if found else null
55 55  */
56 56 public Game searchGame(String name) {
57 57     for(int i=0; i < gameCounter; i++){
58 58         Game storedGame = gameList[i+1];
59 59         if(storedGame.name.equals(name)){
60 60             return storedGame;
61 61         }
62 62     }
63 63     return null;
64 64 }

```

### 3) addPlayer

Block	Lines	Entry	Exit
1	73,74	73	74
2	75	75	75
3	78,79	78	79
4	80,81,82	80	82
5	89,90,91,92	89	92
6	83	83	83
7	85,86,87	85	87



### 3)addPlayer

TR for Edge

Coverage : (1,2)(1,3)(2,3)(3,4),(3,5)(4,6)(4,7)(6,7)(7,3)

Test Path:

[1,3,5]: addPlayer(Prakash)  
addPlayer(Prakash)  
Return("Prakash already exists")

[1,2,3,5]: addPlayer(Prakash)  
Return("Prakash added successfully")

[1,3,4,7,3,5]: addPlayer(Prakash)  
addPlayer(Prakash)  
Return("Prakash already exists")

[1,3,4,6,7,3,5]: [1,2,3,5]: addPlayer(Prakash)  
Return("Prakash added successfully")

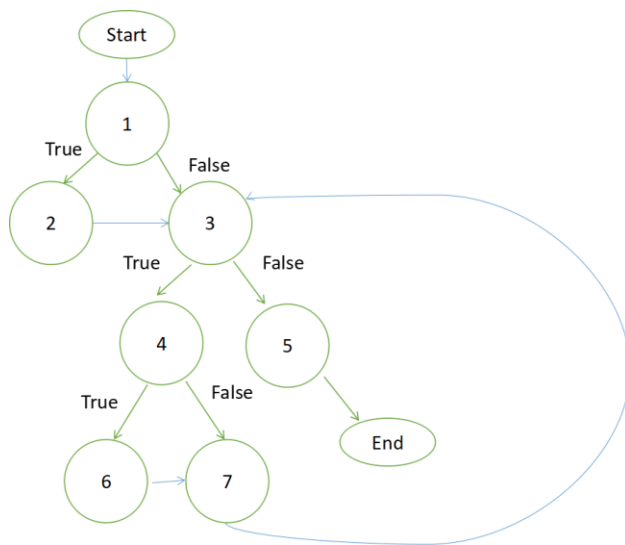
```

65
66 /**
67  * This method adds player to playerlist
68  * @param name : sets name of the player
69  * @param gameNames : name of games player is playing
70  * @return string indicating successful addition otherwise error
71  */
72 public String addPlayer(String name,String[] gameNames){
73     Player player = searchPlayer(name);
74     if(player != null){
75         return name+" already exists";
76     }
77     //verify every gameName for its validity
78     Game[] gamesPlayed = new Game[gameNames.length];
79     for(int i=1; i < gameNames.length; i++){
80         String gameName = gameNames[i];
81         Game storedGame = searchGame(gameName);
82         if(storedGame==null){
83             return "Error you cannot be registered for "+gameName;
84         }
85         gamesPlayed[i] = storedGame;
86         GameAssociation association = searchAssociation(storedGame.name);
87         association.playerNames[association.noofPlayers++]=name;
88     }
89     player = new Player(name,gamesPlayed);
90     playerlist[playerCounter] = player;
91     playerCounter++;
92     return name+" added successfully";
93 }
94

```

#### 4) addSchedule

Block	Lines	Entry	Exit
1	102,103	102	103
2	104	104	104
3	107,108	107	108
4	109,110,111	109	111
5	112	112	112
6	114,115,116	114	116
7	118,119,120,121	118	121



4)addSchedule  
 TR for Edge  
 Coverage :(1,2)(1,3)(2,3)(3,4),(3,5)  
 (4,6)(4,7)(6,7)(7,3)  
 Test Path:  
 [1,3,5]  
  
 [1,2,3,5]  
  
 [1,3,4,7,3,5]  
  
 [1,3,4,6,7,3,5]

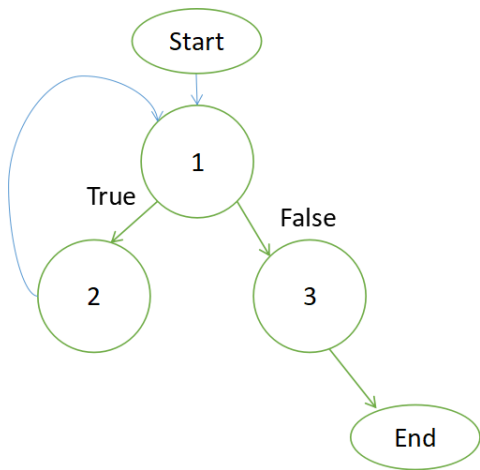
```

95 /**
96  * This method add days schedule
97  * @param dayName : day name which wants to be scheduled
98  * @param gameNames : name of games to be played on day
99  * @return string indicating successful addition otherwise error
100  */
101 public String addSchedule(String dayName,String[] gameNames){
102     DaySchedule day = searchDay(dayName);
103     if(day != null){
104         return dayName+" already scheduled";
105     }
106     //verify every gameName for its validity
107     Game[] gamesPlayed = new Game[gameNames.length];
108     for(int i=0; i < gameNames.length-1; i++){
109         String gameName = gameNames[i];
110         Game storedGame = searchGame(gameName);
111         if(storedGame==null){
112             return "Error you cannot be registered for "+gameName;
113         }
114         gamesPlayed[i] = storedGame;
115         GameAssociation association = searchAssociation(storedGame.name);
116         association.daynames[association.noofDays++]=dayName;
117     }
118     day = new DaySchedule(dayName,gamesPlayed);
119     scheduleList[scheduleCounter] = day;
120     scheduleCounter++;
121     return dayName+" added successfully";
122 }
123
124 /**

```

5) searchAssociation

Block	Lines	Entry	Exit
1	130,131	130	131
2	132	132	132
3	134	134	134

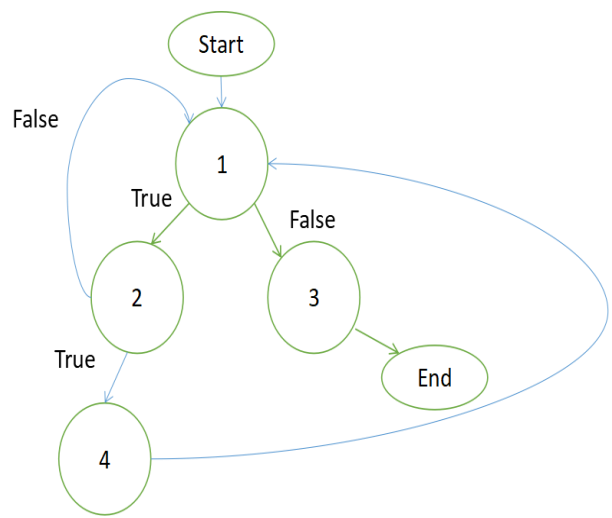


5)searchAssociation		
TR	for	Edge
Coverage :(1,2)(1,3)(2,1)		
Test Path:		
[1,3]		
[1,2,1,3]		

```
124 124 /**
125 125 * This method finds Game details by game name
126 126 * @param name : name of the game
127 127 * @return game details in GameAssociation list if found, else null
128 128 */
129 129 private GameAssociation searchAssociation(String name) {
130 130     for(GameAssociation association :gameAssociationList ){
131 131         if(association.gamename.equals(name))
132 132             return association;
133 133     }
134 134     return null;
135 135 }
136 136
```

6) searchPlayer

Block	Lines	Entry	Exit
1	143	143	143
2	144,145	144	145
3	149	149	149
4	146	146	146

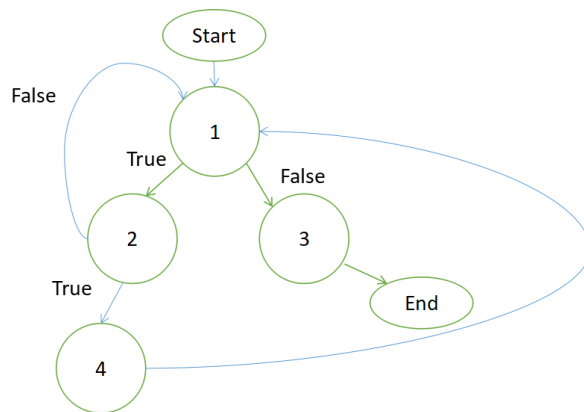


6)searchPlayer  
TR for Edge  
Coverage : (1,2)(1,3)(2,1)(2,4),(4,1)  
Test Path:  
[1,3]  
  
[1,2,1,3]  
  
[1,2,4,1,3]

```
136 136
137 137 /**
138 138 * This method finds player by player name
139 139 * @param name : name of the player
140 140 * @return player details in Player object if found, else null
141 141 */
142 142 public Player searchPlayer(String name) {
143 143     for(int i=0; i < playerCounter-1; i++){
144 144         Player storedPlayer = playerList[i];
145 145         if(storedPlayer.name.equals(name)){
146 146             return storedPlayer;
147 147         }
148 148     }
149 149     return null;
150 150 }
151 151
```

## 7) searchDay

Block	Lines	Entry	Exit
1	158	158	158
2	159,160	159,160	159,160
3	164	164	164
4	161	161	161



7)searchDay  
 TR for Edge  
 Coverage :(1,2)(1,3)(2,1)(2,4),(4,1)  
 Test Path:  
 [1,3]  
 [1,2,1,3]  
 [1,2,4,1,3]

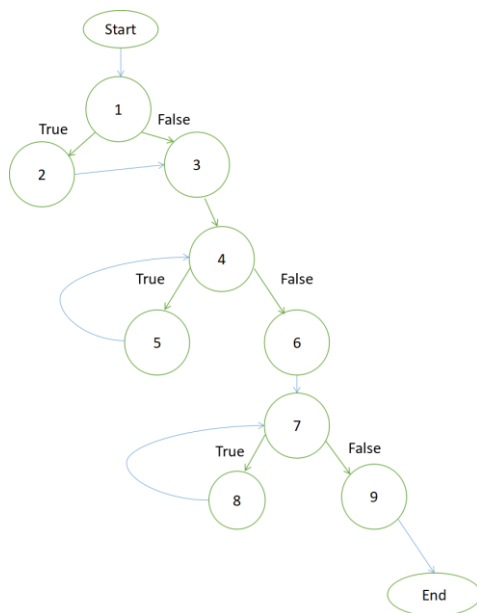
```

151 151
152 152 /**
153 153  * This method finds day schedule by day name
154 154  * @param name: name of the day
155 155  * @return details of days schedule if found, else null
156 156  */
157 157 public DaySchedule searchDay(String name) {
158 158     for(int i=1; i < scheduleCounter; i++){
159 159         DaySchedule storedDay = scheduleList[i-1];
160 160         if(storedDay.dayName.equals(name)){
161 161             return storedDay;
162 162         }
163 163     }
164 164     return null;
165 165 }
166 166

```

## 8) displayGameWiseSchedule

Block	Lines	Entry	Exit
1	175,176	175	176
2	177	177	177
3	179,180,181,182	179	182
4	183,184	183	184
5	185,186	185	186
6	188	188	188
7	189,190	189	190
8	191,192	191	192
9	194	194	194



### 8)displayGameWiseSchedule

TR for Edge  
Coverage : (1,2)(1,3)(2,3)(3,4),(4,5)(4,6)(5,4)  
(6,7)(7,8)(7,9)(8,7)

Test Path:  
[1,3,4,6,7,9]

[1,2,3,4,5,4,6,7,8,7,9]

```

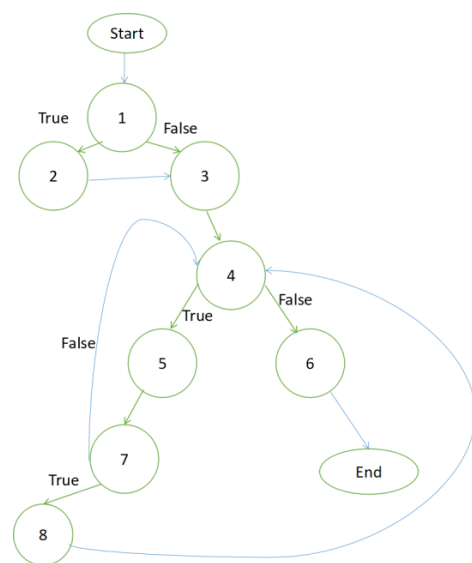
168 168
169 169 /**
170 170 * This method displays game wise schedule by game name
171 171 * @param gameName : name of the game
172 172 * @return String with schedule
173 173 */
174 174 public String displayGameWiseSchedule(String gameName){
175 175     Game game = searchGame(gameName);
176 176     if(game==null){
177 177         return "Error : This game is not valid";
178 178     }
179 179     String[] playerNames = getPlayerNames(gameName);
180 180     String[] dayNames = getDayNames(gameName);
181 181     StringBuilder sb = new StringBuilder();
182 182     sb.append("Players Names: ");
183 183     for(String playerName : playerNames){
184 184         if(playerName==null)
185 185             break;
186 186         sb.append(playerName);
187 187     }
188 188     sb.append("\nDay Names: ");
189 189     for(String dayName : dayNames){
190 190         if(dayName==null)
191 191             break;
192 192         sb.append(dayName);
193 193     }
194 194     return sb.toString();
195 195 }
196 196

```



## 9)displayDayWiseSchedule

Block	Lines	Entry	Exit
1	203,204	203	204
2	205	205	205
3	207,208,209	207	209
4	210	210	210
5	211,212	211	212
6	219	219	219
7	213,214	213	214
8	216	216	216



### 9)displayDayWiseSchedule

TR for Edge  
Coverage : (1,2)(1,3)(2,3)(3,4),(4,5)(4,6)(5,7)(7,4)(7,8)  
(8,4)

Test Path:

[1,3,4,6]

[1,2,3,4,5,7,4,6]

[1,2,3,4,5,7,8,4,6]

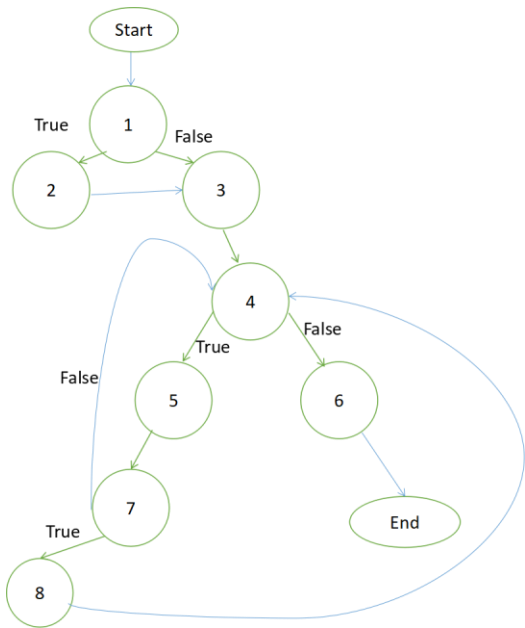
```

196 196
197 197 /**
198 198 * This method displays day wise schedule by day name
199 199 * @param dayName : name of the day
200 200 * @return String with day wise schedule
201 201 */
202 202 public String displayDayWiseSchedule(String dayName) {
203 203     DaySchedule schedule = searchDay(dayName);
204 204     if(schedule==null){
205 205         return "Error : This day is not valid";
206 206     }
207 207     StringBuilder sb = new StringBuilder();
208 208
209 209     Game[] gamesPlayed = schedule.games;
210 210     for(Game g : gamesPlayed){
211 211         sb.append("Game = "+g.name);
212 212         String[] playerNames = getPlayerNames(g.name);
213 213         for(String name : playerNames){
214 214             if(name==null)
215 215                 break;
216 216             sb.append(" "+name+"\n");
217 217         }
218 218     }
219 219     return sb.toString();
220 220 }
221 221

```

10)displayPlayerWiseSchedule

Block	Lines	Entry	Exit
1	248,249	248	249
2	250	250	250
3	252,253	252	253
4	254	254	254
5	255,256	255	256
6	263	263	263
7	257,258	257	258
8	259,260	259	260



10)displayPlayerWiseSchedule

TR for Edge  
Coverage : (1,2)(1,3)(2,3)(3,4),(4,5)(4,6)(5,7)(7,4)(7,8)(8,4)  
Test Path:  
[1,3,4,6]  
  
[1,2,3,4,5,7,4,6]  
  
[1,2,3,4,5,7,8,4,6]

```
241 241
242 242 /**
243 243  * This method is used to display schedule for a player
244 244  * @param playerName : name of player
245 245  * @return : string with game and days game is played
246 246  */
247 247 public String displayPlayerWiseSchedule(String playerName) {
248 248     Player player = searchPlayer(playerName);
249 249     if(player==null){
250 250         return "Error : This player is not valid";
251 251     }
252 252     StringBuilder sb = new StringBuilder();
253 253     Game[] gamesPlayed = player.games;
254 254     for(Game g : gamesPlayed){
255 255         sb.append("Game : "+g.name);
256 256         String[] dayNames = getDayNames(g.name);
257 257         for(String name : dayNames){
258 258             if(name==null)
259 259                 break;
260 260             sb.append(" "+name+"\n");
261 261         }
262 262     }
263 263     return sb.toString();
264 264 }
265 265
266 266 }
```