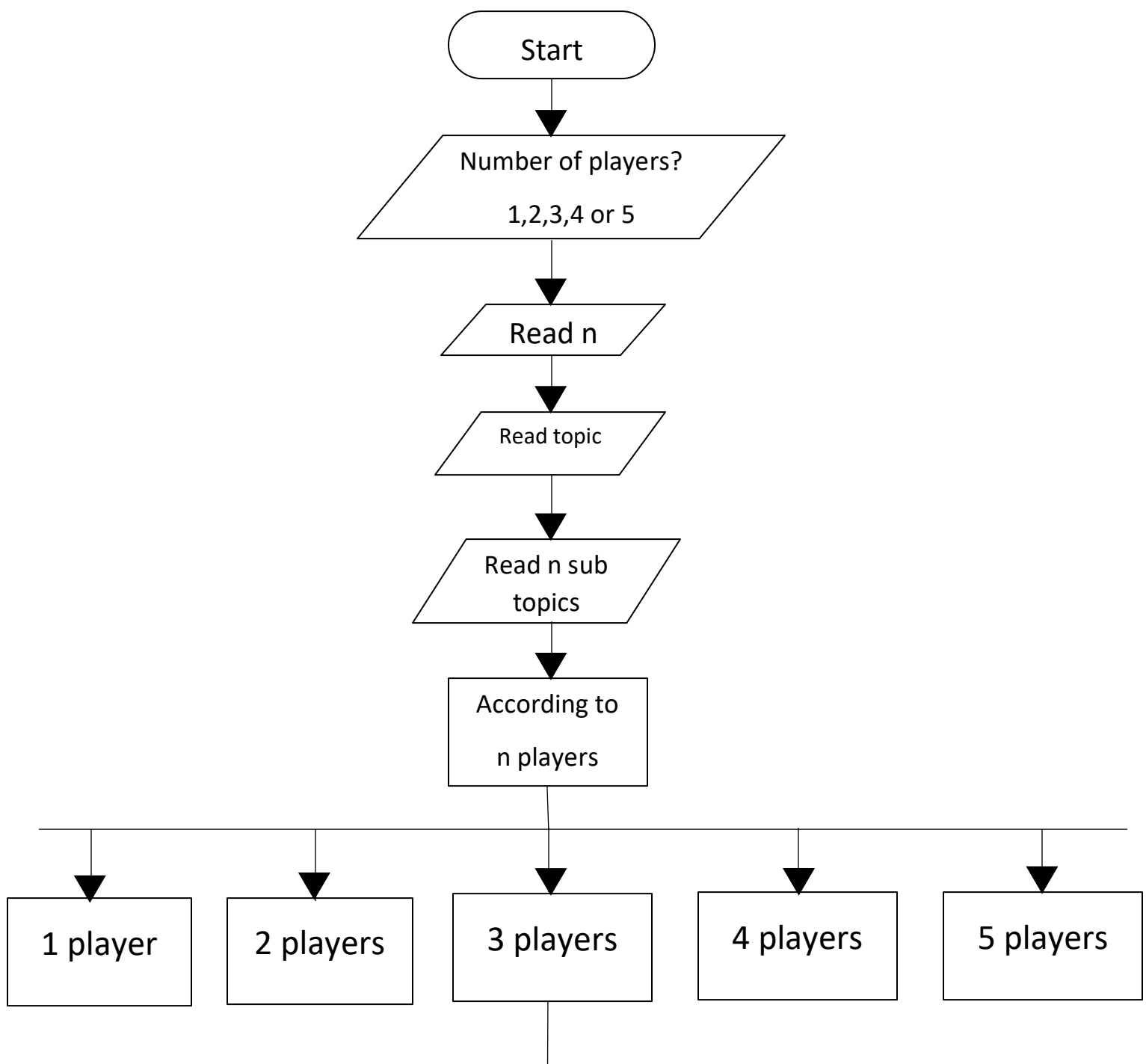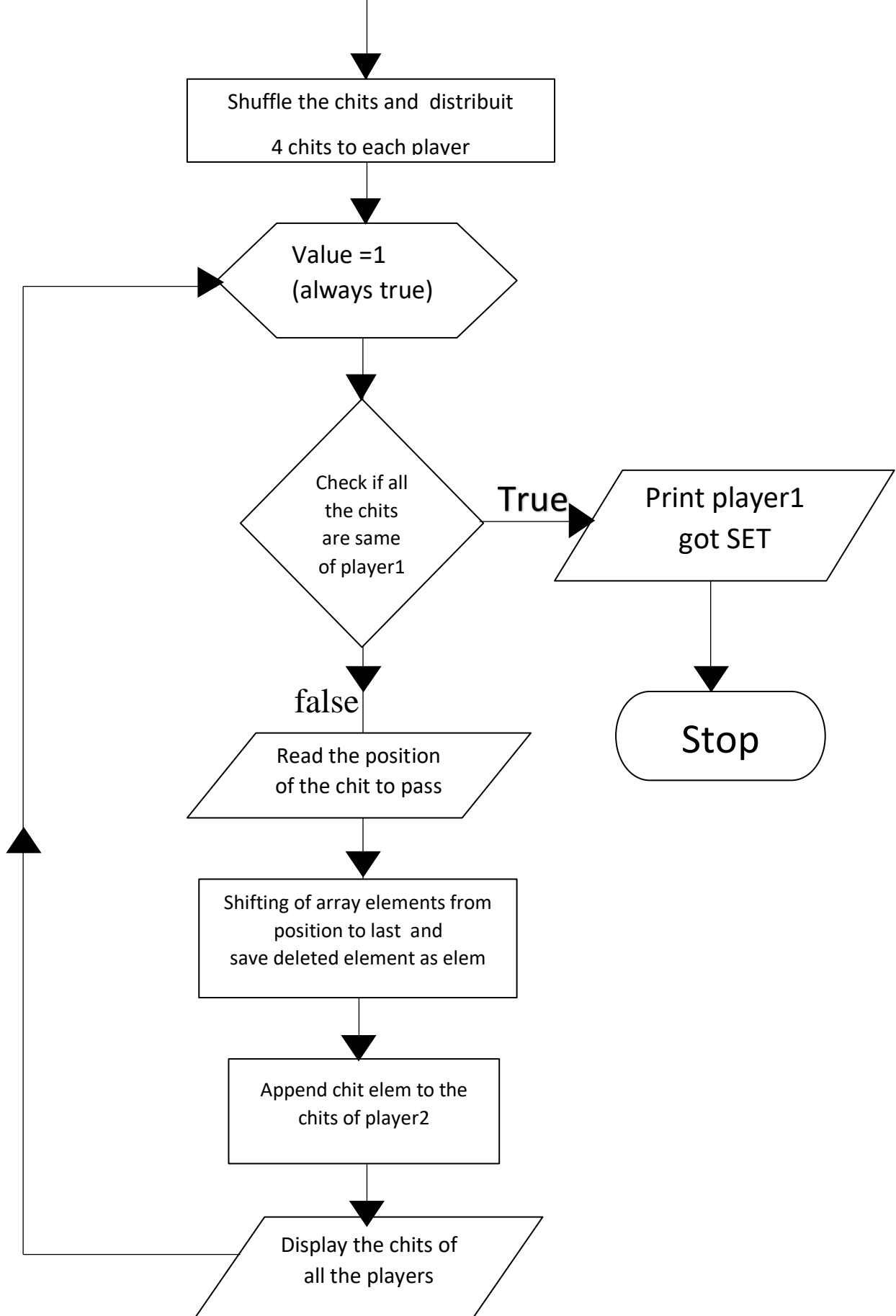# GAME : THE SET

Description:

   We categorize this game into different players. The game required minimum of 1 player and maximum of 5 players. Actually 3 players are required to play this game in reality, but here if the user choose 1 or 2 players option the role other players will be played by computer. This game depends on luck, after getting the shuffled chits each player should keep on passing the chits untill a player got set (equal number of chits). This procedure and working principle is shown by the below diagrams.

```
              ( Start )
                 |
                 v
        / Number of players? /
        /   1,2,3,4 or 5     /
                 |
                 v
            / Read n /
                 |
                 v
          / Read topic /
                 |
                 v
         / Read n sub /
         /   topics   /
                 |
                 v
         [ According to ]
         [  n players   ]
                 |
  +-------+-------+-------+-------+
  |       |       |       |       |
  v       v       v       v       v
[1 player][2 players][3 players][4 players][5 players]
                  |
```

Shuffle the chits and distribuit

4 chits to each player

Value =1
(always true)

Check if all
the chits
are same
of player1

True → Print player1
got SET

Stop

false

Read the position
of the chit to pass

Shifting of array elements from
position to last and
save deleted element as elem

Append chit elem to the
chits of player2

Display the chits of
all the players

Sample output:- for 3 players.

```
 "E:\c p\just\bin\Release\just.exe"                                    —    □    ✕
```

```
            --------------------    --------------------    --------------------
            |                  |    |                  |                       |
            |                  |    |                  |                       |
            |                  |    |                  |                       |
            --------------------    --------------------                       |
                                |   |                                          |
                                |   |                                          |
                                |   |                                          |
            --------------------    --------------------
```

```
        ***** MAIN MENU *****

        Choose an option to continue...

        Press 1) :- 1 Player. (play with computers)
        Press 2) :- 2 Players.(play with computer )
        Press 3) :- 3 Players.
        Press 4) :- 4 Players.
        Press 5) :- 5 Players.
        Press 6) :- Help!
        Press 7) :- About?
        Press 0) :- Exit.
3

        Selected option is 3 players...

        Enter 3 player's name.
kumar
suha
amar

        Enter the main topic
mobiles

        Enter 3 sub topics under mobiles
samsung
nokia
lenovo
_____
```

```
"E:\c p\just\bin\Release\just.exe"                                          —   □   X
_____

Press any number from 1-9 to get a shuffled chits.
6
        kumar got   ---------->    nokia     samsung    nokia     samsung
         suha got   ---------->    nokia     lenovo     nokia     lenovo
         amar got   ---------->   samsung    lenovo    samsung    lenovo
_____
Enter the position of the chit to send from kumar to suha
1

..................NEW VALUES ARE............................

        kumar got   ---------->   samsung     nokia    samsung
         suha got   ---------->    nokia     lenovo     nokia     lenovo     nokia
         amar got   ---------->   samsung    lenovo    samsung    lenovo
_____
Enter the position of the chit to send from suha to amar
2

..................NEW VALUES ARE............................

        kumar got   ---------->   samsung     nokia    samsung
         suha got   ---------->    nokia      nokia    lenovo     nokia
         amar got   ---------->   samsung    lenovo    samsung    lenovo    lenovo
_____
Enter the position of the chit to send from amar to kumar
1

..................NEW VALUES ARE............................

        kumar got   ---------->   samsung     nokia    samsung    samsung
         suha got   ---------->    nokia      nokia    lenovo     nokia
         amar got   ---------->   lenovo     samsung   lenovo     lenovo
_____
Enter the position of the chit to send from kumar to suha
2

..................NEW VALUES ARE............................

        kumar got   ---------->   samsung    samsung   samsung
         suha got   ---------->    nokia      nokia    lenovo     nokia     nokia
         amar got   ---------->   lenovo     samsung   lenovo     lenovo
_____
```

```
─────────────────────────────────────────────────────────────────────
Enter the position of the chit to send from suha to amar
3

.................NEW VALUES ARE.............................

         kumar got    ---------->    samsung     samsung     samsung
─────────────────────────────────────────────────────────────────────

.......suha got set......


               --------------------   --------------------   --------------------
               |                      |                      |
               |                      |                      |
               |                      |                      |
               --------------------   --------------------    |
                          |  |                |  |             |
                          |  |                |  |             |
                          |  |                |  |             |
               --------------------   --------------------
Process returned 47 (0x2F)    execution time : 87.244 s
Press any key to continue.
```