

## Scenario

Two players would like to play Mancala game. Player's 1 name is Bob and Player's 2 name is Andy. They:

- Open Mancala environment
- Push help button and read the rules
- Start game (two players)
- Bob chooses pit 3b. It is Bob's turn.

1b: 5 | 2b: 5 | 3b: 0 | 4b: 4 | 5b: 4 | 6b: 4

1 ----+-----+-----+-----+-----+----- 0

6a: 5 | 5a: 4 | 4a: 4 | 3a: 4 | 2a: 4 | 1a: 4

- Andy chooses pit 4a and the last stone goes to store.

1b: 5 | 2b: 5 | 3b: 0 | 4b: 4 | 5b: 4 | 6b: 4

1 ----+-----+-----+-----+-----+----- 1

6a: 5 | 5a: 4 | 4a: 0 | 3a: 5 | 2a: 5 | 1a: 5

- Andy gets free turn and chooses pit 5a

1b: 5 | 2b: 5 | 3b: 0 | 4b: 4 | 5b: 4 | 6b: 4

1 ----+-----+-----+-----+-----+----- 1

6a: 5 | 5a: 0 | 4a: 1 | 3a: 6 | 2a: 6 | 1a: 6

- Bob chooses pit 4b and the last stone goes to store.

1b: 6 | 2b: 6 | 3b: 1 | 4b: 0 | 5b: 4 | 6b: 4

2 ----+-----+-----+-----+-----+----- 1

6a: 5 | 5a: 0 | 4a: 1 | 3a: 6 | 2a: 6 | 1a: 6

- Bob gets free turn and chooses pit 2b.

1b: 7 | 2b: 0 | 3b: 1 | 4b: 0 | 5b: 4 | 6b: 4

3 ----+-----+-----+-----+-----+----- 1

6a: 6 | 5a: 1 | 4a: 2 | 3a: 7 | 2a: 6 | 1a: 6

- Andy chooses pit 6a (User story 7)

1b: 7 | 2b: 0 | 3b: 1 | 4b: 0 | 5b: 4 | 6b: 4

3 ----+-----+-----+-----+-----+----- 2

6a: 0 | 5a: 2 | 4a: 3 | 3a: 8 | 2a: 7 | 1a: 7

- Andy gets free turn and chooses pit 1a

1b: 8 | 2b: 1 | 3b: 2 | 4b: 1 | 5b: 5 | 6b: 5

3 ----+-----+-----+-----+-----+----- 3

6a: 0 | 5a: 2 | 4a: 3 | 3a: 8 | 2a: 7 | 1a: 0

- Bob chooses pit 5b

1b: 9 | 2b: 2 | 3b: 3 | 4b: 2 | 5b: 0 | 6b: 5

4 ----+-----+-----+-----+-----+----- 3

6a: 0 | 5a: 2 | 4a: 3 | 3a: 8 | 2a: 7 | 1a: 0

- Bob get free turn and chooses pit 3b

1b: 10 | 2b: 3 | 3b: 0 | 4b: 2 | 5b: 0 | 6b: 5

5 ----+-----+-----+-----+-----+----- 3

6a: 0 | 5a: 2 | 4a: 3 | 3a: 8 | 2a: 7 | 1a: 0

- Bob get free turn and chooses pit 2b

1b:11 | 2b: 0 | 3b: 0 | 4b: 2 | 5b: 0 | 6b: 5  
6 ----+-----+-----+-----+-----+----- 3  
6a: 1 | 5a: 2 | 4a: 3 | 3a: 8 | 2a: 7 | 1a: 0  
• Andy chooses pit 4a and captures Bob's 5 stones from pit 6b.  
1b:11 | 2b: 0 | 3b: 0 | 4b: 2 | 5b: 0 | 6b: 0  
6 ----+-----+-----+-----+-----+----- 9  
6a: 1 | 5a: 2 | 4a: 0 | 3a: 9 | 2a: 8 | 1a: 0  
• Bob chooses pit 4b and captures Andy's 2 stones from pit 2a.  
1b:11 | 2b: 0 | 3b: 1 | 4b: 0 | 5b: 0 | 6b: 0  
9 ----+-----+-----+-----+-----+----- 9  
6a: 1 | 5a: 0 | 4a: 0 | 3a: 9 | 2a: 8 | 1a: 0  
• Andy chooses pit 6a  
1b:11 | 2b: 0 | 3b: 1 | 4b: 0 | 5b: 0 | 6b: 0  
9 ----+-----+-----+-----+-----+----- 9  
6a: 0 | 5a: 1 | 4a: 0 | 3a: 9 | 2a: 8 | 1a: 0  
• Bob chooses pit 1b (User story 9)  
1b: 0 | 2b: 0 | 3b: 2 | 4b: 1 | 5b: 1 | 6b: 1  
10 ----+-----+-----+-----+-----+----- 9  
6a: 1 | 5a: 2 | 4a: 1 | 3a:10 | 2a: 9 | 1a: 1  
• Andy chooses pit 1a  
1b: 0 | 2b: 0 | 3b: 2 | 4b: 1 | 5b: 1 | 6b: 1  
10 ----+-----+-----+-----+-----+----- 10  
6a: 1 | 5a: 2 | 4a: 1 | 3a:10 | 2a: 9 | 1a: 0  
• Andy gets free turn and chooses pit 4a  
1b: 0 | 2b: 0 | 3b: 2 | 4b: 1 | 5b: 1 | 6b: 1  
10 ----+-----+-----+-----+-----+----- 10  
6a: 1 | 5a: 2 | 4a: 0 | 3a:11 | 2a: 9 | 1a: 0  
• Bob chooses pit 3b  
1b: 0 | 2b: 1 | 3b: 0 | 4b: 1 | 5b: 1 | 6b: 1  
12 ----+-----+-----+-----+-----+----- 10  
6a: 0 | 5a: 2 | 4a: 0 | 3a:11 | 2a: 9 | 1a: 0  
• Andy chooses pit 5a (User story 11)  
1b: 0 | 2b: 1 | 3b: 0 | 4b: 1 | 5b: 1 | 6b: 1  
12 ----+-----+-----+-----+-----+----- 10  
6a: 0 | 5a: 0 | 4a: 1 | 3a:12 | 2a: 9 | 1a: 0  
• Bob chooses pit 4b and captures Andy stone from opponent pit 4a  
1b: 0 | 2b: 1 | 3b: 0 | 4b: 0 | 5b: 1 | 6b: 1  
14 ----+-----+-----+-----+-----+----- 10  
6a: 0 | 5a: 0 | 4a: 0 | 3a:12 | 2a: 9 | 1a: 0  
• Andy chooses pit 2a and captures Bob stones from pit  
1b: 0 | 2b: 2 | 3b: 1 | 4b: 1 | 5b: 2 | 6b: 2  
14 ----+-----+-----+-----+-----+----- 13  
6a: 0 | 5a: 0 | 4a: 0 | 3a:12 | 2a: 0 | 1a: 1  
• Bob chooses pit 5b

1b: 0 | 2b: 2 | 3b: 2 | 4b: 2 | 5b: 0 | 6b: 2  
14 -----+-----+-----+-----+-----+----- 13  
6a: 0 | 5a: 0 | 4a: 0 | 3a:12 | 2a: 0 | 1a: 1  
• Andy chooses pit 1a  
1b: 0 | 2b: 2 | 3b: 2 | 4b: 2 | 5b: 0 | 6b: 2  
14 -----+-----+-----+-----+-----+----- 14  
6a: 0 | 5a: 0 | 4a: 0 | 3a:12 | 2a: 0 | 1a: 0  
• Andy get free turn and choses pit 3a  
1b: 1 | 2b: 3 | 3b: 0 | 4b: 3 | 5b: 1 | 6b: 3  
14 -----+-----+-----+-----+-----+----- 19  
6a: 1 | 5a: 1 | 4a: 0 | 3a: 0 | 2a: 1 | 1a: 1  
• Bob chooses pit 1b  
b1: 0 | b2: 3 | b3: 0 | b4: 3 | b5: 1 | b6: 3  
15 -----+-----+-----+-----+-----+----- 19  
6a: 1 | a5: 1 | a4: 0 | a3: 0 | a2: 1 | a1: 1  
• Bob get free turn and chooses pit 4b  
1b: 0 | 2b: 4 | 3b: 1 | 4b: 0 | 5b: 1 | 6b: 3  
17 -----+-----+-----+-----+-----+----- 19  
6a: 0 | 5a: 1 | 4a: 0 | 3a: 0 | 2a: 1 | 1a: 1  
• Andy chooses pit 1a  
1b: 0 | 2b: 4 | 3b: 1 | 4b: 0 | 5b: 1 | 6b: 3  
17 -----+-----+-----+-----+-----+----- 20  
6a: 0 | 5a: 1 | 4a: 0 | 3a: 0 | 2a: 1 | 1a: 0  
• Andy get free turn and chooses pit 2a  
1b: 0 | 2b: 4 | 3b: 1 | 4b: 0 | 5b: 1 | 6b: 0  
17 -----+-----+-----+-----+-----+----- 24  
6a: 0 | 5a: 1 | 4a: 0 | 3a: 0 | 2a: 0 | 1a: 0  
• Bob chooses pit 2b  
1b: 1 | 2b: 0 | 3b: 1 | 4b: 0 | 5b: 1 | b6: 0  
18 -----+-----+-----+-----+-----+----- 24  
6a: 1 | 5a: 2 | 4a: 0 | 3a: 0 | 2a: 0 | 1a: 0  
• Andy chooses pit 5a  
1b: 1 | 2b: 0 | 3b: 1 | 4b: 0 | 5b: 1 | 6b: 0  
18 -----+-----+-----+-----+-----+----- 24  
6a: 1 | 5a: 0 | 4a: 1 | 3a: 1 | 2a: 0 | 1a: 0  
• Bob chooses pit 1b  
1b: 0 | 2b: 0 | 3b: 1 | 4b: 0 | 5b: 1 | 6b: 0  
19 -----+-----+-----+-----+-----+----- 24  
6a: 1 | 5a: 0 | 4a: 1 | 3a: 1 | 2a: 0 | 1a: 0  
• Bob get free turn,chooses pit 5b and captures stone from opponent pit 3a  
1b: 0 | 2b: 0 | 3b: 1 | 4b: 0 | 5b: 0 | 6b: 0  
21 -----+-----+-----+-----+-----+----- 24  
6a: 1 | 5a: 0 | 4a: 1 | 3a: 0 | 2a: 0 | 1a: 0  
• Andy chooses pit 4a

1b: 0 | 2b: 0 | 3b: 1 | 4b: 0 | 5b: 0 | 6b: 0  
 21 -----+-----+-----+-----+-----+----- 24  
 6a: 1 | 5a: 0 | 4a: 0 | 3a: 1 | 2a: 0 | 1a: 0  
 • Bob chooses pit 3b  
 1b: 0 | 2b: 1 | 3b: 0 | 4b: 0 | 5b: 0 | 6b: 0  
 21 -----+-----+-----+-----+-----+----- 24  
 6a: 1 | 5a: 0 | 4a: 0 | 3a: 1 | 2a: 0 | 1a: 0  
 • Andy chooses pit 6a and win the game  
 1b: 0 | 2b: 0 | 3b: 0 | 4b: 0 | 5b: 0 | 6b: 0  
 21 -----+-----+-----+-----+-----+----- 26  
 6a: 0 | 5a: 0 | 4a: 0 | 3a: 1 | 2a: 0 | 1a: 0  
 • Game over - stones left in pit 3a goes to Andy's store  
 1b: 0 | 2b: 0 | 3b: 0 | 4b: 0 | 5b: 0 | 6b: 0  
 21 -----+-----+-----+-----+-----+----- 27  
 6a: 0 | 5a: 0 | 4a: 0 | 3a: 0 | 2a: 0 | 1a: 0  
 • Count stones in store and show the result  
 • Game environment offers to Bob and Andy to play "New Game"