

Pseudocode for Yatzy

Step 1. Initialise game with 5 dice and available slots for saving result as in yatzy, 1-6, sum, bonus

Step 2. Roll the dice

Step 3. Check the results of the dice after the toss

Step 4. Decide if you want to save any of the dice of the toss

Step 5. Decide which to save

- If all are saved

 - Continue to check dice result of the turn (step 6)

- Else if less than three turns decide if you want to toss again

 - If you want to toss again, go back to step 2

- Else continue to check dice result of the turn (step 6)

Step 6. Check the dice result of the turn

- If result matches any free slot between 1-6

 - Choose where to put points

- Else if result doesn't match any of the free slots

 - Choose which slot gets 0 points

Step 7. Check if end of game (all slots 1-6 are taken)

- If not end of game

 - Go back to step 2.

- If end of game

 - Calculate sum of slots 1-6 and add in sum slot

 - If sum > 63 points

 - add 50 points to bonus slot

Step 8. Display end result for player.