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| LEARNING PROFILE FOR GuessingGame | | | | | |
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# Problem Statement

Textbook example program.

# Description of the Code

Plays a guessing game with the user. Computer chooses a number between 1 and 100, and the user will try to guess it. The computer tells the user whether the guess is high or low or correct. If the user gets the number after six guesses or fewer, the user wins the game. After each game, the user has the option of continuing with another game.

# Errors and Warnings

No errors.

# Sample Input and Output

## [Version 1.0]

Let's play a game. I'll pick a number between

1 and 100, and you try to guess it.

What is your first guess? 12345678987654321234567890987654321

\*\*\* Error in input: Illegal integer input, 12345678987654321234567890987654321.

\*\*\* Expecting: Integer in the range -2147483648 to 2147483647

\*\*\* Discarding Input: (end-of-line)

Please re-enter: -2147483648

That's too low. Try again: 2147483647

That's too high. Try again: 1/0

That's too low. Try again: Not sure

\*\*\* Error in input: Integer value not found in input.

\*\*\* Expecting: Integer in the range -2147483648 to 2147483647

\*\*\* Discarding Input: Not sure

Please re-enter: 0.0.0

That's too low. Try again: nil

\*\*\* Error in input: Integer value not found in input.

\*\*\* Expecting: Integer in the range -2147483648 to 2147483647

\*\*\* Discarding Input: nil

Please re-enter: tree fiddy

\*\*\* Error in input: Integer value not found in input.

\*\*\* Expecting: Integer in the range -2147483648 to 2147483647

\*\*\* Discarding Input: tree fiddy

Please re-enter: $3.50

\*\*\* Error in input: Integer value not found in input.

\*\*\* Expecting: Integer in the range -2147483648 to 2147483647

\*\*\* Discarding Input: $3.50

Please re-enter: 3.50

That's too low. Try again: ok

\*\*\* Error in input: Integer value not found in input.

\*\*\* Expecting: Integer in the range -2147483648 to 2147483647

\*\*\* Discarding Input: ok

Please re-enter: 50

You didn't get the number in 6 guesses.

You lose. My number was 87.

Would you like to play again? (Y/N) y

What is your first guess? 50

That's too high. Try again: 25

That's too low. Try again: 38

That's too low. Try again: 44

You got it in 4 guesses!

My number was 44.

Would you like to play again? (Y/N) Y

What is your first guess? 44

That's too low. Try again: 72

That's too low. Try again: 86

That's too low. Try again: 93

That's too high. Try again: 90

You got it in 5 guesses!

My number was 90.

Would you like to play again? (Y/N) N

Thanks for playing. Goodbye.

## [Version 1.1] With Member Variables

Let's play a game. I'll pick a number between

1 and 100, and you try to guess it.

What is your first guess? 9999999999999999999999999

\*\*\* Error in input: Illegal integer input, 9999999999999999999999999.

\*\*\* Expecting: Integer in the range -2147483648 to 2147483647

\*\*\* Discarding Input: (end-of-line)

Please re-enter: -2147483648

That's too low. Try again: '\a'

\*\*\* Error in input: Integer value not found in input.

\*\*\* Expecting: Integer in the range -2147483648 to 2147483647

\*\*\* Discarding Input: '\a'

Please re-enter: '\n'

\*\*\* Error in input: Integer value not found in input.

\*\*\* Expecting: Integer in the range -2147483648 to 2147483647

\*\*\* Discarding Input: '\n'

Please re-enter: \\n

\*\*\* Error in input: Integer value not found in input.

\*\*\* Expecting: Integer in the range -2147483648 to 2147483647

\*\*\* Discarding Input: \\n

Please re-enter: -2147483648

That's too low. Try again: 2147483648

\*\*\* Error in input: Integer input outside of legal range, 2147483648.

\*\*\* Expecting: Integer in the range -2147483648 to 2147483647

\*\*\* Discarding Input: (end-of-line)

Please re-enter: 2147483647

That's too high. Try again: 0/0/0

That's too low. Try again: 1.zero.1

That's too low. Try again: 3.50

You didn't get the number in 6 guesses.

You lose. My number was 30.

Would you like to play again? (Y/N) Y

What is your first guess? 50

That's too high. Try again: 25

That's too high. Try again: 13

That's too low. Try again: 19

You got it in 4 guesses!

My number was 19.

Would you like to play again? (Y/N) N

You played 2 games,

and you won 1 of these games.

Thanks for playing. Goodbye.

# Discussion

Using Eck’s TextIO simplifies getting the correct user input, automatically asking and giving examples for correct input if given the wrong stuff.