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#CIS 261

#Guessing Games

import random

def play\_game(limit):

number\_to\_guess = random.randint(1, limit)

print(f"I'm thinking of a number between 1 and {limit}.")

guess = None

attempts = 0

while guess != number\_to\_guess:

try:

guess = int(input("Enter your guess: "))

attempts += 1

if guess < number\_to\_guess:

print("Too low, try again.")

elif guess > number\_to\_guess:

print("Too high, try again.")

else:

print(f"Congratulations! You guessed it in {attempts} tries!")

except ValueError:

print("Invalid input. Please enter a number.")

def main():

play\_again = "y"

while play\_again.lower() == "y":

try:

limit = int(input("Enter the upper limit for the guessing game (greater than 1): "))

if limit <= 1:

print("Please enter a number greater than 1.")

continue

except ValueError:

print("Invalid input. Please enter a number.")

continue

play\_game(limit)

play\_again = input("Do you want to play again? (y/n): ")

print("Thanks for playing!")

if \_\_name\_\_ == "\_\_main\_\_":

main()