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import random
import time

total_frames = int(input("Enter the total number of frames: "))
window_size = int(input("Enter the Window Size: "))
total_transmissions = 0
random.seed(time.time())

current_frame = 1
while current_frame <= total_frames:
    transmitted_frames = 0
    for frame in range(current_frame, min(current_frame +
window_size, total_frames + 1)):
        print("Frames sent", frame)
        total_transmissions += 1

        for frame in range(current_frame, min(current_frame +
window_size, total_frames + 1)):
            flag = random.randint(0, 1)
            if not flag:
                print("Acknowledgment for Frame", frame)
                transmitted_frames += 1
            else:
                print("Frame", frame, "Not Received")
                print("Retransmitting Window")
                break

        print()
        current_frame += transmitted_frames

print("Total number of transmissions:", total_transmissions)

'''
python -u "C:/Users/Rishab/OneDrive/Desktop/CN Experiments/import
random.py"
Enter the total number of frames: 4
Enter the Window Size: 3
Frames sent 1
Frames sent 2
Frames sent 3
Acknowledgment for Frame 1
Frame 2 Not Received
Retransmitting Window
Frames sent 2
Frames sent 3
Frames sent 4
Frame 2 Not Received
Retransmitting Window
Frames sent 2
Frames sent 3
Frames sent 4
Acknowledgment for Frame 2
Frame 3 Not Received
Retransmitting Window
Frames sent 3
Frames sent 4
Frame 3 Not Received
Retransmitting Window
'''

```

Frames sent 3
Frames sent 4
Frame 3 Not Received
Retransmitting Window
Frames sent 3
Frames sent 4
Acknowledgment for Frame 3
Acknowledgment for Frame 4
Total number of transmissions: 15
'''