

# Day 10 - User Challenge



Today we are going to make sure we have everything we need in our backpack to explore more jungle.

In your challenge.py create a program that asks the user to enter items to put into their backpack. We are going to learn a couple bonus techniques.

Range:

The range() function returns a sequence of numbers from 0 to the specified number. ie: range(5) will give us 0, 1, 2, 3, 4. Remember computers start at 0. We can loop through this range() and do some cool things. Look at the code below:

```
Day 10 > challenge.py > ...
1  # Ask user to count their items before packing them
2  user_items_count = input("How many items do you want to add to your backpack? ")
3  # Convert user_items_count string to integer
4  user_items_count = int(user_items_count)
5  # Creates empty list
6  backpack = []
7  # Create a loop for each item the user has counted
8  for each_item in range(user_items_count):
9      # Ask user to input each item. Remember each_item starts at 0 so we count with each_item + 1
10     user_item = input(f"Enter in item {each_item + 1}: ")
11     # Using .append() method to add items to a list
12     backpack.append(user_item)
13 # Print items in the backpack
14 print(backpack)
```

Your challenge today is to copy this code and run the program. See if you can understand the code by using the comments as hints. Change the backpack variable to "drone\_set" and ask the user to input items found in a Tello package ie: drone, propeller, battery, usb cable, propeller guards etc...

There is a side mission for you as well! Please make a note of anything that was "sticky" or "tricky" or required a "ummmm" to be said out loud. Go back to the last few days and see if there is something you missed. Are you happy with inputs? What about casting variables to different data types?

Good luck! You are going to ace this challenge.

