Project 3: Oregon Trail Using variables, functions, and conditionals in Python, students will create an Oregon Trail game. ## Overview We will be recreating Oregon Trail! The goal is to travel from Independence, Missouri to Oregon City, Oregon (2000 miles) by Dec 31st. However, the trail is arduous. Each day costs you food. You can hunt and rest, but you have to get there before winter! ## Details ### Behavior * Player starts in Independence, MO on 03/01 with 2,000 miles to go, 500lbs of food, and 5 health. * The player must get to Oregon by 12/31 * At the beginning of the game, user is asked their name. * Each turn, the player is asked what action they choose, where the player can type in the following: 'travel', 'rest', 'hunt', 'status', 'help', 'quit' * The players health will decrease twice each month. * The player eats 5lbs of food a day. * 'travel': moves you randomly between 30-60 miles and takes 3-7 days (random). * 'rest': increases health 1 level (up to 5 maximum) and takes 2-5 days (random). * 'hunt': adds 100lbs of food and takes 2-5 days (random). * 'status': lists food, health, distance traveled, and day. * 'help': lists all the commands. * 'quit': will end the game. ### Implementation details * Create functions for all options a player can take * Use global variables to keep track of player health, food pounds, miles to go, current day, current month * Create a function add day which updates the day * Use a list to keep track of which months have 31 days and use this in the add day function (i.e.: MONTHS_WITH_31_DAYS = [1, 3, 5, 7, 8, 10, 12]) * Create a function select action which uses a while loop to call add day function * Game ends if days run out, health runs out, you get there (Oregon), or the player quits. ## Bonus 1. Make the rate of food consumption be a function of activity. So if a player hunts for a turn they take up more food, but if they rest they take up less food. 2. Create a random event that occurs randomly once a month, like a river crossing or a dysentery, that will take up a range of 1-10 food, 1-10 days and 0-1 health.