

Write a program that uses nested loops to collect data and calculate the average rainfall over a period of years. The program should first ask for the number of years. The outer loop will iterate once for each year. The inner loop will iterate twelve times, once for each month. Each iteration of the inner loop will ask the user for the inches of rainfall for that month. After all iterations, the program should display the number of months, the total inches of rainfall, and the average rainfall per month for the entire period.

```
# CS175
# First Name Last Name
# rainfall.py

# Declare variables to hold the total rainfall,
# monthly rainfall, average rainfall (all float), the number
# of years, and the total number of months.

# Get (input) number of years (validate input must be 1 to 3)

# Get (input) rainfall by month (nested for loops: year then
month)

# Calculate and print the total rainfall and the average
rainfall
```

Your program input and output should look like what you see below (remember to validate for year to be 1,2, or 3. Not shown here. Use the same values below to test your program.

```
Enter the number of years: 2
For year 1:
Enter the rainfall amount for the month: 1
Enter the rainfall amount for the month: 1
Enter the rainfall amount for the month: 1
Enter the rainfall amount for the month: 1
Enter the rainfall amount for the month: 1
Enter the rainfall amount for the month: 1
Enter the rainfall amount for the month: .5
Enter the rainfall amount for the month: .5
Enter the rainfall amount for the month: .5
Enter the rainfall amount for the month: .5
Enter the rainfall amount for the month: .5
Enter the rainfall amount for the month: .5
For year 2:
Enter the rainfall amount for the month: 2
Enter the rainfall amount for the month: 2
Enter the rainfall amount for the month: 2
Enter the rainfall amount for the month: 2
Enter the rainfall amount for the month: 2
Enter the rainfall amount for the month: 2
Enter the rainfall amount for the month: .25
Enter the rainfall amount for the month: .25
Enter the rainfall amount for the month: .25
Enter the rainfall amount for the month: .25
Enter the rainfall amount for the month: .25
Enter the rainfall amount for the month: .25
For 24 months
Total rainfall: 22.50 inches
Average monthly rainfall: 0.94 inches
>>>
```