

Loops III

Warmup

- Write a program that lets the user enter pairs of integers repeatedly (use a `while` loop).
- The program should print the sum of each pair of numbers after the pair is entered.
- If the sum is 42, end the loop (and do not print the sum in that case).
- Challenge: Modify the loop so that it still ends on a sum of 42, but 42 is printed.
- Challenge 2: Write a loop that prints out the numbers from 1 to 100 (this is totally separate from the earlier problems).

(A) Write a loop to print the multiples of 3 (between 3 and 60, inclusive).

(B) Write a loop to print the multiples of 5 (between 5 and 60, inclusive).

(C) Write a loop to print the multiples of 3 and/or 5 (between 3 and 60, inclusive).

(This should be one single increasing list of numbers.)

(D) Write a loop to print the numbers from 1 to 30, each labeled with the word "even" or "odd" depending on the number.

(E) Write a loop to print the numbers from 1 to 30, each labeled with whether the number is divisible by 3, by 5, by both 3 and 5, or neither 3 nor 5.