Write a C program to find the sum all values of an array.

Write a c program to find the square of a number.

Write a programming using arrays to find how many numbers are odd and how many are even.

Write a C program to generate all the prime numbers between 1 and n, where n is a value supplied by the user.

Write a C program to implement the quadratic equation.

Write a program that prompts the user to enter in a number of days. Your program should then compute the number of years, weeks, and days that number represents. For this exercise, ignore leap years (thus all years are 365 days). Your output should look something like the following.

Write a program that computes the total for a bill. The program should prompt the user for a sub-total. It should then prompt whether or not the customer is entitled to an employee discount (of 15%) by having them enter 1 for yes, 2 for no. It should then compute the new sub-total and apply a 7.35% sales tax, and print the receipt details along with the grand total. Take care that you properly round each operation.

The surface area of a sphere of radius r is 4πr2

and the volume of a sphere with radius r is 4 /3πr3

Write a program that prompts the user for a radius r and outputs the surface area

and volume of the corresponding sphere. If the radius entered is invalid, print an error

message and exit. Your output should look something like the following.

**Conditionals**

A BOGO (Buy-One, Get-One) sale is a promotion in which a person buys two items and receives a 50% discount on the less expensive one. Write a program that prompts the user for the cost of two items, computes a 50% discount on the less expensive one, and then computes a grand total

Body Mass Index (BMI) is a healthy statistic based on a person’s mass and height. For a healthy adult male BMI is calculated as **BMI = (m / h2) ·703.069579**

where m is the person’s mass (in lbs) and h is the person’s height (in whole inches).

Write a program that reads in a person’s mass and height as input and outputs a

characterization of the person’s health with respect to the categories below.

Range Category

BMI < 15 Severely underweight

15 ≤ BMI < 16 Underweight

16 ≤ BMI < 18.5 Normal

18.5 ≤ BMI < 25 Overweight

25 ≤ BMI < 30 Obese Class I

30 ≤ BMI < 35 Obese Class II

35 ≤ BMI < 40 Obese Class III

BMI ≥ 40 Very severely underweight

**Loops**

Prints all integers 1 thru 100 on the same line delimited by a single space.

Prints all even integers 0 up to n in reverse order

A list of integers divisible by 3 between a and b where a, b are parameters or inputs