CS111 Lab#4 Exercise#2

Write a C++ program that reads in needed parameters from a user (length and width of a rectangle), then saves and prints an area and perimeter of it.

Plan for the program:
   a. Declare variables to store length and width (again, think about the data type)
   b. Declare variables to store results of calculations (perimeter and area, again the type!)
   c. Read in values for length and width from the user
   d. Calculate a perimeter and an area and save results to declared variables
   e. Output the result

For an extra thought:
Read about integer overflow (wikipedia etc.).
If you used double type to store the result of calculations of an area in an above program change it to integer type and test your program with the following values for length and width values:
Length = 1’000’000
Width = 1’500’000
Result of an area calculated will be incorrect. Check it with a calculator, ‘overflow’ is to blame here.