# Major 2 Checklist

## Programming / Functionality

* Use the getNum() function from a previous assignment to obtain user input.
* MENU
  + Use an on-screen menu to prompt the user for input.
  + The program must loop, displaying the menu each time that menu input is required.
  + There must be two blank lines prior to the "Menu:" line to separate it from the  
    previous output.
  + If the user enters an invalid menu entry, display "Invalid entry" and continue with the  
    menu loop.
* CALCULATION:
  + Calculation is performed only when the user selects menu item 3.
  + The power calculation must be done using a function.
    - It must be called powerCalculation.
    - It must take exactly two parameters (the base and exponent, in that order, as  
      ints).
    - It must return the calculated value to the calling function.
    - It must use a loop to calculate the power.
  + Display the result of the calculation in main().
* VALUE CONSTRAINTS:
  + The base and exponent variables must be int variables declared in main(). They must  
    have initial values of 1.
  + The base number (that is, the number which is being raised to the exponent) must only  
    be in the range 1 to 30.
  + The exponent must only be in the range 1 to 6.
  + When getting the base or exponent from the user, make sure to prompt them  
    appropriately.
  + Range checking for the base and exponent must be done using a function.
  + Out-of-range bases and exponents must restore the previous value as appropriate.
  + In main(), display an error message if the value is out of range (not in powerCalculation  
    or numberRangeChecker).

## Things that help me

* The numberRangeChecker () function can be used more than twice or in other assignments if you wish

## Submitting

* submitting:
  + m2.cpp
  + checklist.pdf