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|  | LAB #2  Statements and Flow Control |  |

This lab exercise is closed book/closed notes and an individual effort. It is to be completed in person on this sheet. This lab is worth 50 points and you will have 75 minutes to complete it. Fill in the following blanks with the missing code (pay close attention to syntax!)

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| #include <iostream> // For console IO  int main() { // Entry point definition  // Define two integers, a and b. Initialize both variables with input from the user.  // Define another integer called product. Initialize this variable to 1.      // If a and b are both > to 0, calculate a^b via repeated multiplication (see reference)  // Else, print an error message. You must use a FOR LOOP!  return 0;  } |

Reference

Please use the following reference to assist you in this lab.

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| Mathematical Statement | An Equivalent in Code |
| Summation of a constant *n* times: | int sum = 0;  for (int i = 0; i < n; i++) {  sum += a;  }  cout << "n\*a = a summed n times = " << sum << endl; |
| Multiplication of a constant *n* times:  (Provided *a* and *n* are > 0) | int product = 1, i = 0;  while (i < n) {  product \*= a;  i++;  }  cout << "a^n = a multiplied n times = " << product << endl; |