

1. Take m (0 to 9) and n (0 to 9) as input from the user and calculate the value of the following series:

$$1^m + 2^m - 3^m + 4^m - \dots \pm n^m.$$

Explanation: Your program should first prompt the user for the value of m, then it should prompt the user for the value of n. Here m represents the power and n represents the value up to which the series will continue. Then your program will calculate the value of the series and output the result

Input 1:

Value of m: 3

Value of n: 2

Output 1:

9

Input 2:

Value of m: 4

Value of n: 3

Output 2:

-64