

Assignment 8: Looping Statements (2)

1. Write a C program to print the output for the following series:

a) $1 + 4 - 9 + 16 - 25 + 36 \dots + n^2$

b) $1^2 + 2^2 + 3^2 + 4^2 + \dots + n^2$

2. Print the following patterns: (using nested loops)

a) *

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b) *

c) 12345

 1234

 123

 12

 1

d) 12345

 23456

 34567

 45678

 56789

e) 1

 10

 101

 1010

 10101

f) 1

 11

 101

 1001

 11111

g) 1

 4 1

 9 4 1

 16 9 4 1

25 16 9 4 1

h) 1

 12

 123

 1234

 12345

 1234

 123

 12

 1