```
Script started on 2024-08-29 10:58:02-05:00 [TERM="xterm-256color" TTY="/dev/pts/0" COLUMNS="182" LINES="58"]
[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ ls
[?2004l
 AI_Disclaimer.pdf   Lab2_Log.txt  'Lab2_Loops&Functions.pdf'   lab2Problem1.c   [0m[01;32mlab2Problem1.sh[0m
lab2Problem2.c    [01;32mlab2Problem2.sh[0m
[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ gcc lab2Problem1.c -o lab2Problem1
[?2004l
[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ ./lab2Problem1 9
[?2004l
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 9
9 8 7 7 7 7 7 7 7 7 7 7 7 7 7 8 9
9 8 7 6 6 6 6 6 6 6 6 6 6 6 7 8 9
9 8 7 6 5 5 5 5 5 5 5 5 5 6 7 8 9
9 8 7 6 5 4 4 4 4 4 4 4 5 6 7 8 9
9 8 7 6 5 4 3 3 3 3 3 4 5 6 7 8 9
9 8 7 6 5 4 3 2 2 2 3 4 5 6 7 8 9
9 8 7 6 5 4 3 2 1 2 3 4 5 6 7 8 9
9 8 7 6 5 4 3 2 2 2 3 4 5 6 7 8 9
9 8 7 6 5 4 3 3 3 3 3 4 5 6 7 8 9
9 8 7 6 5 4 4 4 4 4 4 4 5 6 7 8 9
9 8 7 6 5 5 5 5 5 5 5 5 5 6 7 8 9
9 8 7 6 6 6 6 6 6 6 6 6 6 6 7 8 9
9 8 7 7 7 7 7 7 7 7 7 7 7 7 7 8 9
9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 9
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ ./lab2Problem1 9[K3
[?2004l
3 3 3 3 3
3 2 2 2 3
3 2 1 2 3
3 2 2 2 3
3 3 3 3 3
[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ ./lab2Problem1 3[K2
[?2004l
2 2 2
2 1 2
2 2 2
[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ ./lab2Problem1 2[K1
[?2004l
1
[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ ./lab2Problem1 1[K4
[?2004l
4 4 4 4 4 4 4
4 3 3 3 3 3 4
4 3 2 2 2 3 4
4 3 2 1 2 3 4
4 3 2 2 2 3 4
4 3 3 3 3 3 4
4 4 4 4 4 4 4
[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ ./lab2Problem1 4[K5
[?2004l
5 5 5 5 5 5 5 5 5
5 4 4 4 4 4 4 4 5
5 4 3 3 3 3 3 4 5
5 4 3 2 2 2 3 4 5
5 4 3 2 1 2 3 4 5
5 4 3 2 2 2 3 4 5
5 4 3 3 3 3 3 4 5
5 4 4 4 4 4 4 4 5
5 5 5 5 5 5 5 5 5
[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ ./lab2Problem1 5[K6
[?2004l
6 6 6 6 6 6 6 6 6 6 6
6 5 5 5 5 5 5 5 5 5 6
6 5 4 4 4 4 4 4 4 5 6
6 5 4 3 3 3 3 3 4 5 6
6 5 4 3 2 2 2 3 4 5 6
6 5 4 3 2 1 2 3 4 5 6
6 5 4 3 2 2 2 3 4 5 6
6 5 4 3 3 3 3 3 4 5 6
6 5 4 4 4 4 4 4 4 5 6
6 5 5 5 5 5 5 5 5 5 6
6 6 6 6 6 6 6 6 6 6 6
```

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[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ ./lab2Problem1 6[K7
[?2004l
7 7 7 7 7 7 7 7 7 7 7 7 7 7
7 6 6 6 6 6 6 6 6 6 6 6 6 7
7 6 5 5 5 5 5 5 5 5 5 5 6 7
7 6 5 4 4 4 4 4 4 4 5 6 7
7 6 5 4 3 3 3 3 3 4 5 6 7
7 6 5 4 3 2 2 2 3 4 5 6 7
7 6 5 4 3 2 1 2 3 4 5 6 7
7 6 5 4 3 2 2 2 3 4 5 6 7
7 6 5 4 3 3 3 3 3 4 5 6 7
7 6 5 4 4 4 4 4 4 4 5 6 7
7 6 5 5 5 5 5 5 5 5 5 5 6 7
7 6 6 6 6 6 6 6 6 6 6 6 6 7
7 7 7 7 7 7 7 7 7 7 7 7 7 7
[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ ./lab2Problem1 7[K8
[?2004l
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
8 7 7 7 7 7 7 7 7 7 7 7 7 7 8
8 7 6 6 6 6 6 6 6 6 6 6 6 7 8
8 7 6 5 5 5 5 5 5 5 5 5 6 7 8
8 7 6 5 4 4 4 4 4 4 4 5 6 7 8
8 7 6 5 4 3 3 3 3 3 4 5 6 7 8
8 7 6 5 4 3 2 2 2 3 4 5 6 7 8
8 7 6 5 4 3 2 1 2 3 4 5 6 7 8
8 7 6 5 4 3 2 2 2 3 4 5 6 7 8
8 7 6 5 4 3 3 3 3 3 4 5 6 7 8
8 7 6 5 4 4 4 4 4 4 4 5 6 7 8
8 7 6 5 5 5 5 5 5 5 5 5 6 7 8
8 7 6 6 6 6 6 6 6 6 6 6 6 7 8
8 7 7 7 7 7 7 7 7 7 7 7 7 7 8
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ gcc lab2Problem2.c -o lab2Problem2
[?2004l
[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ ./lab2Problem2 20 19
[?2004l
P(20,19) = 2432902008176640000
C(20,19) = 20
[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ ./lab2Problem2 20 19[K[K[K[K[K10 3
[?2004l
P(10,3) = 720
C(10,3) = 120
[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ ./lab2Problem2 10 3[K[K[K[K1 1
[?2004l
P(1,1) = 1
C(1,1) = 1
[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ ./lab2Problem2 1 1[K2
[?2004l

Error: r should be less than or equal to n

[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ ./lab2Problem2 1 21
[?2004l

*** Input of 'r' Incorrect! ***

[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ ./lab2Problem2 1 21[1P 210 21
[?2004l

*** Input of 'n' Incorrect! ***

[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ ./lab2Problem2 0 21[K[K[K[K5 5
[?2004l
P(5,5) = 120
C(5,5) = 1
[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ ./lab2Problem2 5 5[K3
[?2004l
P(5,3) = 60
C(5,3) = 10
[?2004h(base) ]0;jovyan@jupyter-rhoehn: ~/mtsu.csci.6050/lab02[01;32mjovyan@jupyter-
rhoehn[00m:[01;34m~/mtsu.csci.6050/lab02[00m$ exit
[?2004l
```

exit

Script done on 2024-08-29 11:00:38-05:00 [COMMAND_EXIT_CODE="0"]