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Assignment 1
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Variables, Operations, and Loops

Write a C program that generates multiplication tables using different loop structures.

TASK REQUIREMENTS:

Name:

- Generate a printed NxN table for values N=1 to 11 using for loops
- Table should have column headers showing each N value
- Create a reversed version(11 at top/left) using while loops
- Include clear code comments and consistent formatting
- Preserve the included sample text files for testing

SAMPLE OUTPUT

TABI	LE OF	PRODU	JCTS(FOR LO	OOP)						
N	1	2	3	4	5	6	7	8	9	10	11
1	1	2	3	4	5	6	7	8	9	10	11
2	2	4	6	8	10	12	14	16	18	20	22
3	3	6	9	12	15	18	21	24	27	30	33
4	4	8	12	16	20	24	28	32	36	40	44
5	5	10	15	20	25	30	35	40	45	50	55
6	6	12	18	24	30	36	42	48	54	60	66
7	7	14	21	28	35	42	49	56	63	70	77
8	8	16	24	32	40	48	56	64	72	80	88
9	9	18	27	36	45	54	63	72	81	90	99
10	10	20	30	40	50	60	70	80	90	100	110
11	11	22	33	44	55	66	77	88	99	110	121
N	11	10	9	8	7	6	5	4	3	2	1
N 11	11 121	10 110	9 99	8 88	7 77	6 66	5 55	44	33	22	11
N 11 10	11 121 110	10 110 100	9 99 90	8 88 80	7 77 70	6 66 60	5 55 50	44 40	33 30	22 20	11 10
N 11 10 9	11 121 110 99	10 110 100 90	9 99 90 81	8 88 80 72	7 77 70 63	6 66 60 54	5 55 50 45	44 40 36	33 30 27	22 20 18	11 10 9
N 11 10 9	11 121 110 99 88	10 110 100 90 80	9 99 90 81 72	8 88 80 72 64	7 77 70 63 56	6 66 60 54 48	5 55 50 45 40	44 40 36 32	33 30 27 24	22 20 18 16	11 10 9 8
N 11 10 9 8 7	11 121 110 99 88 77	10 110 100 90 80 70	9 99 90 81 72 63	8 88 80 72 64 56	7 77 70 63 56 49	6 66 60 54 48 42	5 55 50 45 40 35	44 40 36 32 28	33 30 27 24 21	22 20 18 16 14	11 10 9 8 7
N 11 10 9 8 7 6	11 121 110 99 88 77 66	10 110 100 90 80 70 60	9 99 90 81 72 63 54	8 88 80 72 64 56 48	7 77 70 63 56 49 42	6 66 60 54 48 42 36	5 55 50 45 40 35 30	44 40 36 32 28 24	33 30 27 24 21 18	22 20 18 16 14 12	11 10 9 8 7 6
N 11 10 9 8 7 6	11 121 110 99 88 77 66 55	10 110 100 90 80 70 60	9 99 90 81 72 63 54 45	8 88 80 72 64 56 48 40	7 77 70 63 56 49 42 35	6 66 60 54 48 42 36 30	5 55 50 45 40 35 30 25	44 40 36 32 28 24 20	33 30 27 24 21 18 15	22 20 18 16 14 12	11 10 9 8 7 6 5
N 11 10 9 8 7 6 5	11 121 110 99 88 77 66 55 44	10 110 100 90 80 70 60 50	9 99 90 81 72 63 54 45 36	8 88 80 72 64 56 48 40 32	7 77 70 63 56 49 42 35 28	6 66 54 48 42 36 30 24	5 55 50 45 40 35 30 25 20	44 40 36 32 28 24 20 16	33 30 27 24 21 18 15	22 20 18 16 14 12 10 8	11 10 9 8 7 6 5
N 11 10 9 8 7 6 5 4 3	11 121 110 99 88 77 66 55 44 33	10 110 100 90 80 70 60 50 40 30	9 99 90 81 72 63 54 45 36 27	8 88 80 72 64 56 48 40 32 24	7 77 70 63 56 49 42 35 28 21	6 66 60 54 48 42 36 30 24	5 55 50 45 40 35 30 25 20	44 40 36 32 28 24 20 16	33 30 27 24 21 18 15 12	22 20 18 16 14 12 10 8	11 10 9 8 7 6 5 4 3
N 11 10 9 8 7 6 5	11 121 110 99 88 77 66 55 44	10 110 100 90 80 70 60 50	9 99 90 81 72 63 54 45 36	8 88 80 72 64 56 48 40 32	7 77 70 63 56 49 42 35 28	6 66 54 48 42 36 30 24	5 55 50 45 40 35 30 25 20	44 40 36 32 28 24 20 16	33 30 27 24 21 18 15	22 20 18 16 14 12 10 8	11 10 9 8 7 6 5

Submission Instructions

Video Recording Submission:

You will demonstrate the completion of this project via a **video screen-capture recording** of you using CLion, GitBash, and viewing your code to show completion of the **Video Submission Checklist**, which is posted on Brightspace. You will post **either your video file or a link to it**(e.g. a Microsoft Stream recording, make sure to give the instructor permissions to watch it), to the Brightspace Assignment 1 Dropbox prior to the deadline. If you are not sure of how best to capture such a video, seek advice from the instructor prior to the deadline.

NOTE: MAKE SURE TO SHOW EVERYTHING IN THE VIDEO SUBMISSION CHECKLIST STEP-BY-STEP. YOU WILL NEED AUDIO IN THE VIDEO FOR AT LEAST THE CODE REVIEW PORTION OF THE CHECKLIST