

Problem 2 – Cheat Sheet

Goshko is a great singer, but he sucks at math - multiplication table is the thing he hates the most. Help him by generating a cheat sheet with the multiplication table for him. Goshko should be able to enter the following things:

- The numbers of **rows** and **columns** of the output table
- The **start number vertically**
- The **start number horizontally**

For example, if he enters **9** rows, **9** columns, vertical and horizontal start numbers **1**, the generated cheat sheet should look like this:

	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9
2	2	4	6	8	10	12	14	16	18
3	3	6	9	12	15	18	21	24	27
4	4	8	12	16	20	24	28	32	36
5	5	10	15	20	25	30	35	40	45
6	6	12	18	24	30	36	42	48	54
7	7	14	21	28	35	42	49	56	63
8	8	16	24	32	40	48	56	64	72
9	9	18	27	36	45	54	63	72	81

If he enters **3** rows, **5** columns, vertical start number **4**, horizontal start numbers **8**, the generated cheat sheet should look like this:

	8	9	10	11	12
4	32	36	40	44	48
5	40	45	50	55	60
6	48	54	60	66	72

Input

The input data should be read from the console.

- The **first line** will contain the number of **rows R**. The second line will contain the number of **columns C**. The third line will contain the **vertical start number V**. The fourth line will contain the **horizontal start number H**.

The input data will always be valid and in the format described. There is no need to check it explicitly.

Output

The output data should be printed on the console.

The output should contain **exactly R lines** with **exactly C numbers per line** – representing each line of the cheat sheet. **Numbers should be separated by exactly one whitespace (" ")**, and there **shouldn't be any whitespaces after the last number on a line**.

Constraints

- $0 \leq R \leq 100$.
- $0 \leq C \leq 100$.
- Any number **N** in the cheat sheet will be in the range $[-9223372036854775808...9223372036854775807]$.
- Allowed working time for your program: 0.2 seconds. Allowed memory: 16 MB.

Examples

Input	Output
9	1 2 3 4 5 6 7 8 9
9	2 4 6 8 10 12 14 16 18
1	3 6 9 12 15 18 21 24 27
1	4 8 12 16 20 24 28 32 36
	5 10 15 20 25 30 35 40 45
	6 12 18 24 30 36 42 48 54
	7 14 21 28 35 42 49 56 63
	8 16 24 32 40 48 56 64 72
	9 18 27 36 45 54 63 72 81

Input	Output
3	32 36 40 44 48
5	40 45 50 55 60
4	48 54 60 66 72
8	