# 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 c **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 ≤ **R** ≤ 100.
* 0 ≤ **C** ≤ 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** |  | **Input** | **Output** |
| 9  9  1  1 | 1 2 3 4 5 6 7 8 9  2 4 6 8 10 12 14 16 18  3 6 9 12 15 18 21 24 27  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 |  | 3  5  4  8 | 32 36 40 44 48  40 45 50 55 60  48 54 60 66 72 |