Challenge #2 [Infosys] - Shaktimaan's suggestion

You are excited about your internship interview with Superman. It took him a few days to reach home, but it seems he reached on the day that you predicted!

He passes you on the HR interviewer. For the India office, the Head of HR is none other than Shaktimaan!

Shaktimaan is a bit busy putting some prisoners in jail and can't take your interview right away. This is your perfect opportunity to make a good impression.  Help him place the prisoners in the respective cells properly.



There are n cells, and Shaktimaan wants to fill p prisoners as follows:

* First all the n cells receive 1 prisoner each
* Then, each cell from 2 to n receives 1 prisoner each
* Then, each cell from 3 to n receives 1 prisoner each
* And so on...
* This keeps on going till we have run out of prisoners. If there are more prisoners left even after filling n rounds, then fill the remaining ones in the 1st cell

**Input Format**

* The first line contains T, the number of test cases
* Each test case contains 2 integers: n (number of cells) and p (number of prisoners)

Note: n <= p

**Output Format**

* Print the number of prisoners in each cell

**Example Input**

|  |  |
| --- | --- |
|  | 3 |
|  | 2 3 |
|  | 3 10 |
|  | 3 20 |

**Example Output**

|  |  |
| --- | --- |
|  | 1 2 |
|  | 5 2 3 |
|  | 15 2 3 |

**Explanation**

* We have 2 cells. We first fill and get 1 1, we have one more prisoner, so we fill 1 2
* We have 3 cells and 10 prisoners. First we get: 1 1 1, then 1 2 2, then 1 2 3, we have 4 more prisoners left, which we place in the first cell, thus making it 5 2 3
* Similarly the last one becomes 15 2 3

**Note:** Users running code in Java should keep the class name as Main

All the best