**After Pandemic Tour**

**Input:** Standard Input, **Output:** Standard Output

**Time Limit:** 2 second(s)

**Memory Limit:** 256 megabytes

**Problem Statement:**

After a long pandemic situation, it is 20XY. We have successfully defeated the Coronavirus, and at this moment, there are zero active cases worldwide. Now, we are happy but depressed as well. Because we have spent a long time in home-quarantine. Hence, the BUBT-CSE department will arrange a varsity tour which is going to heal our mental health. Also, it is great news that BUBT decided to bear all the costs of this tour. So, all the students of the CSE dept. are waiting to attend the tour.

Now, BUBT-CSE dept. came up with N buses (The buses are numbered 1, 2, ..., N) in a row, i'th bus have Ai number of seats. There are M intakes, i'th intake has Bi number of students.

As you are a good programmer, your task is to assign buses for each intake. However, there is a problem, all the students of an intake want to ride on the same bus. If there are not enough seats for all the students of an intake in the same bus, they will stay at home because they do not want to ride in separate buses.

Each intake will come to you one after another. You always assign an intake to the first bus (starting from left) having enough seats. After this, the number of free seats on the bus decreases.

**Input:**

The first line contains two integers **N** and **M (1 <= N,M <= 2.105)** , the **numbers of buses** and the **number of intakes**.

The second line contains **N** integers **A1, A2, .. AN (1 <= Ai <= 109)** , the **number of seats** in **i'th bus.**

The last line contains **M** integers **B1, B2,.. BM (1 <= Bi <= 109)** , the **number of students** **in i'th intake.**

**Output:**

**Print** **the assigned bus for each intake**. **If** **an intake cannot be assigned a bus, print 0 instead**. **See the sample output for exact format.**

**Sample Input/Output:**

|  |  |
| --- | --- |
| **Sample Input** | **Sample Output** |
| 8 5  3 2 4 1 5 5 2 6  4 4 7 1 1 | 3 5 0 1 1 |