**Waiter**

**Problem Statements :**

You are a waiter at a party. There are N stacked plates on pile Each plate has a number written on it. Then there will be Q iterations. In i-th iteration, you start picking the plates in from the top one by one and check whether the number written on the plate is divisible by the i-th prime. If the number is divisible , you stack that plate on pile . Otherwise you stack that plate on pile After Q iterations, plates can only be on pile Output numbers on these plates from top to bottom of each piles in order of

**Input Format :**

First line contains two space separated integers, N and Q.

The next line contains N space separated integers representing the initial pile of plates, i.e. . The leftmost value represents the bottom plate of the pile.

**Constraints :**

1 < N < 5\*10^4

2< , < 10^4

**Output Format :**

Output N lines. Each line contains a number written on the plate. Printing should be done in the order defined above.

**Sample Input :**

5 1  
3 4 7 6 5

**Sample Output :**

4  
6  
3  
7  
5

**Explanation :**

Initially:

= [3, 4, 7, 6, 5]<-TOP

After 1 iteration:

= []<-TOP

= [6, 4]<-TOP

= [5, 7, 3]<-TOP

We should output numbers in first from top to bottom, and then output numbers in from top to bottom.

**Time Limit :**