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A pixel art wizard character with a large black hat, a purple robe with white trim, and a black staff. The character is standing on a purple background with faint patterns of snakes, leaves, and stars. Several gold coins are scattered around the character.

Today is your first day at the
goblin bank.

Your job will be to handle our
customers withdrawals.

In the wizard world, money works
differently.

Our currencies have different coin
values than what you're used to.



- You are given a list of magical currencies.
- A currency is represented by a list of coin values.
- This list represents all the coin values that exist in that currency.
- For each currency, find the smallest amount of money that **cannot** be paid with a single coin.



Input

Name	Description	Example
N	Number of currencies	3 5 1 2 6 9 14 1 2 3 4 7 1 3 5 8 11
C	Number of coin values per currency	
Currency (repeated N times)	C integers separated by spaces, each representing the value of a coin, sorted smallest to largest	

Output

Name	Description	Example
Result (repeated N times)	An integer greater than zero, representing the smallest amount that cannot be paid with a single coin	3 5 2





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