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## Divsum

Input file:            **standard input**  
Output file:           **standard output**  
Time limit:            2 seconds  
Memory limit:         256 megabytes

Bowen has  $N$  different colours of sweets, where the sweetness of each sweet with colour  $i$  is  $A_i$ . Note that  $A_i$  is not necessarily positive because some sweets can be bitter or tasteless.

Bowen is *selectively colour – blind*. At any given point in time, he can choose  $L$  and  $R$  such that he can only see sweets with colour between  $L$  and  $R$  inclusive. He must then eat 1 of each colour of sweet he can see and nothing more. Of course, he can choose to close his eyes, meaning that he cannot see any sweets.

Furthermore, at a given time  $T$ , Bowen is biased against the sweets whose colour is not divisible by  $T$  and his selective colour-blindness blocks them from his field of vision.

For a series of  $Q$  queries, given the time  $T_i$ , help Bowen find out what is the maximum sum of sweetness of all the sweets he eats, assuming he chooses  $L$  and  $R$  optimally. The queries may not be in chronological order.

### Input

The first line of input will have 2 integers  $N$  ( $1 \leq N \leq 10^6$ ) and  $Q$  ( $1 \leq Q \leq 10^6$ ).

The second line of input will have  $N$  integers  $A_1, A_2, \dots, A_N$  ( $-10^9 \leq A_i \leq 10^9$ ).

The following  $Q$  lines of input will contain 1 integer each, the  $i$ -th line containing  $T_i$  ( $1 \leq T_i \leq 10^9$ ).

### Output

Output  $Q$  lines, the  $i$ -th line containing the maximum possible sum of sweetness of all the sweets he has to eat.

### Scoring

Subtask 1 (30%):  $1 \leq N \leq 10^3$ ,  $1 \leq Q \leq 10^3$ ,  $-10^9 \leq A_i \leq 10^9$

Subtask 2 (30%):  $1 \leq N \leq 10^6$ ,  $1 \leq Q \leq 10^6$ ,  $0 \leq A_i \leq 10^9$

Subtask 3 (40%):  $1 \leq N \leq 10^6$ ,  $1 \leq Q \leq 10^6$ ,  $-10^9 \leq A_i \leq 10^9$

### Example

standard input	standard output
10 6	9
1 -2 7 4 -3 5 9 -6 10 -5	26
2	9
1	0
7	9
10	0
7	
11	