

# **Ultimate Dragon**

An evil dragon just wakes up from his slumber, he is so powerful that if he uses all his might, all the kingdom will perish. Of course, he won't do it because he wants to toy with mankind first. He knows that if he uses Y power, then all life Y meter around him will turn to dust in an instant. He wonders how much power should he use, then he offers you that he will spare you if you help him to calculate how many life will fall victim to his power. Because you don't want to die, you choose to help him.

## **Format Input**

The first line will contain N and M, each denoting the number of people in the surrounding area and the number of question that the dragon will ask. The next line will consist of N integers  $a_i$ , each denoting the distance between them and the dragon. The next M lines consist of an integer Y, denoting the dragon's question "If I use Y power, how many people will fall victim?".

## **Format Output**

For each question, print the answer of the dragon's question.

#### **Constraints**

1 <= N, M <= 100 000 1 <= a<sub>i</sub> <= 1 000 000 000 1 <= Y <= 1 000 000 000

Sample Input (standard input)	Sample Output (standard output)
15 5	8
1002 19 3 8 22 123 14 5234 123 657 41	12
829 34 2314 15	8
100	1
1000	0
78	
3	
1	

### Note

The time limit of this problem is 0.1 second.