Problem 2:

**Bhramastra**

Problem Statement:

Shiva is in the search of new Ashtras to win against Junoon. Ashtras are scattered over whole galaxy. Shiva needs help since he is having limited duration of time ‘T’. For every unit of time, he can cover ‘X’ sq unit of area. Find maximum no. of planet he can cover completely within given amount of time. You are given an array of radius, of various planets. (Take Pi= 3.14)

Input Format:

First line consists of single integer denoting the no. of test cases

First line of each test case consist of three space separated integers T(time), X(sq unit area) and n(size of radius array).

Second line of each test case consist of an integer array A, stores the radius of different planets.

Output Format:

Print the maximum no. of planets SHIVA can cover completely.

Input 1:

2

20 20 4

2 4 6 3

30 30 6

5 7 8 2 9 3

Output 1:

3

3

Input 2:

3

10 10 3

2 3 4

12 14 4

3 5 1 2

40 40 5

6 2 5 8 9

Output 2:

1

2

3