A social research organization has determined a simple set of parameters to simulate the behavior of the political parties of our country. One of the parameters is a positive integer h (called the *hartal parameter*) that denotes the average number of days between two successive *hartals* (strikes) called by the corresponding party. Though the parameter is far too simple to be flawless, it can still be used to forecast the damages caused by *hartals*. The following example will give you a clear idea:

Consider three political parties. Assume  $h_1 = 3$ ,  $h_2 = 4$  and  $h_3 = 8$  where  $h_i$  is the hartal parameter for party i (i = 1, 2, 3). Now, we will simulate the behavior of these three parties for N = 14 days. One must always start the simulation on a Sunday and assume that there will be no hartals on weekly holidays (on Fridays and Saturdays).

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Days														
	Su	Mo	Tu	We	Th	$\operatorname{\mathtt{Fr}}$	Sa	Su	Mo	Tu	We	Th	$\operatorname{\mathtt{Fr}}$	Sa
Party 1			х			х			х			х		
Party 2				x				x				x		
Party 3								x						
Hartals			1	2				3	4			5		

The simulation above shows that there will be exactly 5 hartals (on days 3, 4, 8, 9 and 12) in 14 days. There will be no hartal on day 6 since it is a Friday. Hence we lose 5 working days in 2 weeks.

In this problem, given the hartal parameters for several political parties and the value of N, your job is to determine the number of working days we lose in those N days.

## Input

The first line of the input consists of a single integer T giving the number of test cases to follow.

The first line of each test case contains an integer N ( $7 \le N \le 3650$ ) giving the number of days over which the simulation must be run. The next line contains another integer P ( $1 \le P \le 100$ ) representing the number of political parties in this case. The *i*th of the next P lines contains a positive integer  $h_i$  (which will never be a multiple of 7) giving the *hartal parameter* for party i ( $1 \le i \le P$ ).

## Output

For each test case in the input output the number of working days we lose. Each output must be on a separate line.

## Sample Input

2

14 3

3

4 8

100

4

12

15

25

40

## Sample Output

5

15