

Movie Fan

Alice is a cinephile. He wanted to watch a recently released movie. There are many movie shows whose start time and length are given. Your task is to help Alice count the number of ways he can watch the movie. Since he is a cinephile, he can watch many shows as long as they do not overlap.

Input

First line contains an integer t denoting number of test cases.

Each test case contains n, l denoting number of shows and length of the shows.

n integer follows denoting start time of show.

$1 \leq t \leq 10$

$1 \leq n, l \leq 300000$

Output

Print the number of ways Alice can watch shows if he want to watch atleast one show modulo 1000000007.

Example

Input:

3

3 4

3 8 12

3 1

1 2 3

3 3

3 5 9

Output:

7

7

5

For testcase1 ,Alice can watch 1 show in 3 ways,2 shows in 3 ways and 3 show in 1 way total ways=7

For test case3 Alice can watch 1 show in 3 ways, 2 shows in 2 ways ,total ways=5