Divide

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1 second
Memory limit:	256 megabytes

Your birthday is coming! You booked a big cake with n grams and prepare to share it with your friends during the birthday party.

You want to invite $m(0 \leq m < n)$ friends to come. So that there are $m + 1$ persons in the party. After singing the birthday song and making wishes, it's time to eat the delicious cake! Because of some reason, the size of everyone's cake must be an equal integer k and as big as possible. Change the number of your friends to come, so the integer k may change too. Denote S_n as the set of all the different k you can get by controlling the number of your friends.

Calculating one single S_n is too easy. So you are asked to calculate $\sum_{i=1}^{n} |S_i|$, where $|S|$ denotes the size of the set S.

Input

The first line of the input contains an integer $T(T \leq 10^5)$, representing the number of test cases.

For the second to $T + 1$-th lines, each line contains an integer $n(1 \leq n \leq 10^9)$, represents a query.

Output

Output one single line with a single integer represents the answer for each test case. As the answer may be too large, you just need to print it modulo $10^9 + 7$.

Example

standard input	standard output
6 1 1 4 5 1 4	1 1 8 11 1 8