

She was in Love with BST

Devo!

She has broken up with him again! 😞

And after a series of break ups and patch ups , she is done with him!

Being a geek to keep herself distracted, she picks up her favourite topic of dynamic programming where she comes across this idiot problem which says

Given a integer N , you have to tell the sum of number of structurally unique Binary search trees built on different permutations of the set $\{x, x \text{ such that } x \text{ belongs to } [1, N] \text{ and } x \text{ is an integer}\}$.

A Binary Search tree is said to be built on a permutation iff the inorder traversal of that BST is same as the permutation.

A permutation is said to be distinct from another if there exists a position i such that the i th element of both the permutations is different.

Now, her inability to solve the problem is quite stressful to her!
Help her in Solving the problem!

NOTE: She observes that this number can be very large so output this number Modulo 1908 .

Morover she tells you that there inorder traversal of a Binary search tree is Unique.

For Binary Search Tree Read https://en.wikipedia.org/wiki/Binary_search_tree

Input

The first line of the input consists of T , the number of test cases.

The following T lines consists of a single integer N

(N can be at max 1000 , T can be at max 1000)

Output

You have to Output T lines each consisting of the answer to the problem Modulo 1908

Example

Input:

2

1

2

Output:

1

2