## **Tickets**

Time Limit: 1 Second Memory Limit: 2048 MB

A ticket machine operates with exact change rules. Initially, the machine holds k five-dollar bills. There are n people in line with ten-dollar bills and m people with five-dollar bills.

Determine the number of ways (modulo 998244353) for the people to queue such that each person must receive correct change when purchasing a ticket and the machine never runs out of five-dollar bills. On counting, different persons holding a ten-dollar bill or five-dollar bill are considered different person.

## Input

The input consists of multiple test cases. The first line contains an integer T, the number of test cases, it is guaranteed that  $T \le 100,000$ .

Each test case consists of a single line with three integers k, n, and m.

Constraints:  $0 \le k, n, m \le 1 \times 10^6$ 

## Output

For each test case, output an integer representing the number of valid queueing sequences modulo 998244353.

Sample Outputs
8
2