謝旻錚教授競技程… (/groups/11/)

蔡錫鈞教授演算法… (/groups/19/)

蔡錫鈞教授演算法… (/groups/25/)

986 . Assignment 5 - Summation 2 (Deadline: 2019-10-12 23:59:59)

Submit (/submissions/new/?problem_id=986)

Submissions (/groups/25/submissions/?problem_id=986)

Back to List (/groups/25/problems/)

Description

Addition operation requires cost now, and the cost is the summation of those two to be added.
So, to add 1 and 10, you need a cost of 11.
If you want to add 1, 2 and 3, there are several ways:

1. 1 + 2 = 3, cost = 3
   3 + 3 = 6, cost = 6
   Total = 9
2. 1 + 3 = 4, cost = 4
   2 + 4 = 6, cost = 6
   Total = 10
3. 2 + 3 = 5, cost = 5
   1 + 5 = 6, cost = 6
   Total = 11

Your mission is to add a set of integers so that the cost is minimal.

Input Format

Input will start with a positive number, N $(2 \leq N \leq 500000)$ followed by N positive integers (all are less than 1000).

Output Format

Print the minimum total cost of addition in a single line.
As the number can be quite large, output it **modulo** 524287.

Sample Input #1