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Candy Distribution 3

👁 Submissions   Attempted by: **68** | Solved by: **40** | Partially Solved by: **14**   ★★★☆☆
                                                                                    1

🏷   Combinatorics   Math   Medium   ✏ Edit

Problem   Editorial   My Submissions   Analytics

It's again Jawa's birthday today. He has toffees with sweetness {1,2,3, ..., n}. He wants to distribute these toffees to his two best friends Aneesh and Ashish. First he selects some subset A of these toffees and gives them to Aneesh. Now, he selects another subset B such that **A is not a subset of B and B is not a subset of A** and gives it to Ashish.

You have to help Jawa to decide what are the total number of ways in which he can distribute toffees to Aneesh and Ashish. Since answer can be large output the result mod 10^9+7.

[Input]
First line of input contains single integer t denoting number of test cases.
Next t lines contain a single integer n denoting maximum sweetness he have in toffees.

[**Output**]
For each test case output answer to problem by taking mod with 10^9 + 7.

[**Constraints**]
1<=t<=100000
1<=n<=1000000

Sample Input (Plaintext Link)

2
4
8

   Sample Output (Plaintext Link)

   110
   52670

Time Limit: 1 sec(s) for each input file.

Memory Limit: 256 MB

Source Limit: 1024 KB

Marking Scheme: Marks are awarded if any testcase passes.

Allowed languages: C, CPP, CLOJURE, CSHARP, GO, HASKELL, JAVA, JAVASCRIPT, JAVASCRIPT_NODE, LISP, OBJECTIVEC, PASCAL, PERL, PHP, PYTHON, RUBY, R, RUST, SCALA

Problem Author: Ashish Khatkar

Problem Tester: Akash Agrawall

C ▼   Upload file: | Choose File | No file chosen   Save   ↗

1

7

Submit   Compile & Test   Provide custom input   ▶ Play Code (C)

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Most Frequent
Solved by 299

Flip the words
Solved by 17

Majority
Solved by 123

more...

RECENT SUBMISSIONS

User	Result	Time	Lang
MUKESH k...		1.0408	C++
Amir Nas...		1.0213	C++
Amir Nas...		0.9807	C++
Kadumuri...		6.008	C
Kadumuri...		6.0066	C
Sumit Ku...		1.095	C++
Sumit Ku...		1.1618	C++

View All

TRENDING NOTES

Technique to play online Bot games
written by Catalin Stefan Tiseanu

Number Theory - III
written by Boris Sokolov

Exact String Matching Algorithms
written by Alei Reyes

Binary Indexed Tree or Fenwick Tree
written by Chandan Mittal

Small tricks in for loop
written by Rangeesh

more ...

DEVELOPERS TO FOLLOW

Gaurav Chand
Katoch
0 followers

srajan dongre
1 followers

Shagun Kush
5 followers

COMPANIES TO FOLLOW

VMware
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Multunus Software Private Limited
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HARMAN
1975 followers

RECOMMENDED CHALLENGES

Horlicks Hack 4 Fun

03 Sep 2015, 09:00 PM IST

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CODE-HUNT-2F

21 Oct 2015, 05:00 PM IST

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Zoomcar Ruby Challenge

23 Oct 2015, 06:00 PM IST

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Zomato Hiring Challenge

23 Oct 2015, 06:00 PM IST

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Diona iOS Developer Hiring Challenge

24 Oct 2015, 12:00 PM IST

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Tipstat Android Developer Hiring Challenge

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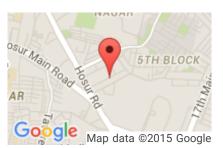
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Developer Sourcing

Lateral Hiring

Campus Hiring

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REACH US

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