SPOJ.com - Problem DIVSUM 10/8/16, 11:56 AM



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Added by: Neal Zane (/users/nealzane)
Date: 2004-06-10

Time limit: 3s Source limit: 5000B Memory limit: 1536MB

Cluster: Cube (Intel G860) (/clusters/)

Languages: All Resource: Neal Zane

DIVSUM - Divisor Summation

#number-theory (/problems/tag/number-theory)

Given a natural number n (1 \leq n \leq 500000), please output the summation of all its proper divisors.

Definition: A proper divisor of a natural number is the divisor that is strictly less than the number.

e.g. number 20 has 5 proper divisors: 1, 2, 4, 5, 10, and the divisor summation is: 1 + 2 + 4 + 5 + 10 = 22.

Input

An integer stating the number of test cases (equal to about 200000), and that many lines follow, each containing one integer between 1 and 500000 inclusive.

Output

One integer each line: the divisor summation of the integer given respectively.

Example

Sample Input:
3
2
10
20
Sample Output:
1
8
22

✓ be spoj user for at least 5 days

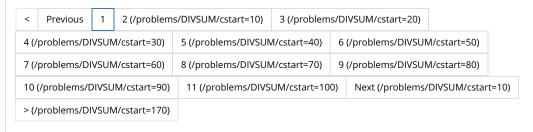
★ solved 0 from 15 needed problems

✓ solve this problem

Warning: large Input/Output data, be careful with certain languages

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0

Dimas Hirda Pratama (/users/vimz13): 2016-09-30 12:40:10 TLE :(



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FOJ.C0	III - Flobleiii DivSoM	!
O	ajay (/users/ajayputti): 2016-09-24 17:11:03 what is the basic idea to attempt to this problem	
0	reconnect (/users/reconnect): 2016-09-14 17:24:39 why am I getting WA although the code gives the right output on my machine? Please anybody help. I'm stuck.	
0	Gaurav (/users/gaurav_sr): 2016-09-14 15:33:33 Any idea what's wrong with solution # 17711087. I am gettign WA. It's in golang	
	Missed out case where num=1.	
1	Last edit: 2016-09-14 15:36:31 sahild95 (/users/sahild95): 2016-08-13 08:51:31 I don't know why I'm getting WA when I believe my logic is correct and sample cases are also getting passed. Please see my solution at: http://ideone.com/qhZ7L2	
0	saini428 (/users/saini428): 2016-06-19 05:45:07 don't think to muchsimple	
0	vignesh97 (/users/vignesh97): 2016-06-17 19:52:14 easy problem, AC in first go	
0	visvats_141095 (/users/visvats_141095): 2016-06-05 19:08:56 AC in first go! :D	
0	azam_9 (/users/azam_9): 2016-06-03 08:59:07 modified sieve also works	
Q	katyalch (/users/katyalch): 2016-05-16 05:48:30 uh oh tle	
Leave a Comment		
Publish		
	: n't post any source code here.	

- 2. Please be careful, leave short comments only. Don't spam here.
- 3. For more discussion (hints, ideas, solutions) please visit our forum (/forum).
- 4. Authors of the problems are allowed to delete the post and use html code here (e.g. to provide some useful links).

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