

Problem J. Jaw-Dropping Set

Input file: *standard input*
Output file: *standard output*
Time limit: 1 second
Memory limit: 256 mebibytes

A subset A of the set $\{1, 2, 3, \dots, n\}$ is called *interesting* if for any pair of different integers $x, y \in A$ neither x divides y nor y divides x .

An interesting subset A is called *amazing* if it has the maximum cardinality among all interesting subsets.

Finally, an amazing subset A is called *jaw-dropping* if it has the minimum sum of elements among all amazing subsets.

Given n , find the sum of elements in any jaw-dropping subset of $\{1, 2, 3, \dots, n\}$.

Input

The first line contains integer t ($1 \leq t \leq 10^5$) — the number of test cases.

Each of the next T lines contains an integer n_i ($1 \leq n_i \leq 10^9$).

Output

Print T lines with answers for each test case.

Example

standard input	standard output
7	1
1	1
2	5
3	5
4	10
5	10
6	17
7	