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B. Yet Another Coin Problem

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

You have 5 different types of coins, each with a value equal to one of the first 5 triangular numbers: 1, 3, 6, 10, and 15. These coin types are available in abundance. Your goal is to find the minimum number of these coins required such that their total value sums up to exactly n.

We can show that the answer always exists.

Input

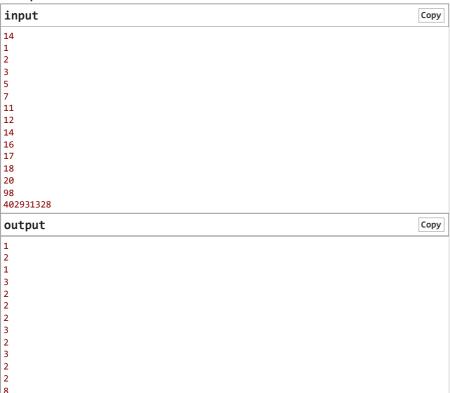
The first line contains one integer t ($1 \le t \le 10^4$) — the number of test cases. The description of the test cases follows.

The first line of each test case contains an integer n ($1 \le n \le 10^9$) — the target value.

Output

For each test case, output a single number — the minimum number of coins required.

Example



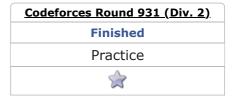
Note

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In the first test case, for n=1 , the answer is 1 since only one 1 value coin is sufficient. $1=1\cdot 1$.

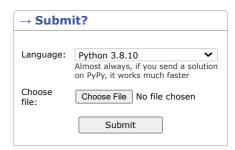
In the fourth test case, for n=5, the answer is 3, which can be achieved using two 1 value coins and one 3 value coin. $5=2\cdot 1+1\cdot 3$.

In the seventh test case, for n=12, the answer is 2, which can be achieved using two 6 value coins.



→ Virtual participation





ightarrow Last submissions		
Submission	Time	Verdict
265862372	Jun/15/2024 12:35	Accepted
265862038	Jun/15/2024 12:33	Runtime error on test 2
265861639	Jun/15/2024 12:29	Runtime error on test 2
265860922	Jun/15/2024 12:24	Runtime error on test 2
<u>265849916</u>	Jun/15/2024 10:58	Time limit exceeded on test 2





6/15/24, 6:40 PM Problem - B - Codeforces

In the ninth test case, for n=16, the answer is 2, which can be achieved using one 1 value coin and one 15 value coin or using one 10 value coin and one 6 value coin. $16=1\cdot 1+1\cdot 15=1\cdot 6+1\cdot 10.$

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