2838 - Electricity from Money

Description

Billy spends much of its spare time playing or programming in his computer even though is only 10 years old. Billy's Mother is complaining about his obsession with computers, and the electric energy is comsumed by the computer. His mother says that she can't spent more than $100 in electric bills. Billy thought this is a good reason, so he will use his skills in computer programming to calculate the maximum amount of integer kWh he can spend paying up to $100. The electricity cost is not linear. There are different rates for consummed electric energy.

Standard electricity costs:

The rate table states that for the first 100 kWh consumed you have to pay $0.09 each, the energy over 100 kWh without reaching the 150 kWh must be paid at $0.30 each, and so forth. Finally the kWh's spent over 5000 are paid at $5.00 each.

Example: total consummed = 176 kWh, you have to pay 100*$0.09 + 50*$0.30 + 26*$0.40 = $34.40; note that 100 kWh+50 kWh+26 kWh=176 kWh.

Input specification

There is a single integer T in the first line of input (1 <= T <= 10^4). It stands for the number of test cases to follow. Each test case consist of a single line containing an integer number M (0 <= M <= 10^6), which stands for the amount of money in $ you have planned to spend in electricity.

Output specification

For each test case print a single line containing the integer maximum amount of kWhs you can spent for a total cost lower or equal to the money (M) you have.

Sample input

```
3
100
0
35
```

Sample output

```
282
0
177
```

Hint(s)

,Kilowatt hours or kWh: is a measure of energy, as kilowatt is a unit of power, kilowatt times hour gives a magnitude of energy.,
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Source	Eduardo Quintana Miranda
Added by	**EduardoQuintana**
Addition date	2014-04-22
Time limit (ms)	3000
Test limit (ms)	1000
Memory limit (kb)	256000
Output limit (mb)	64
Size limit (bytes)	15000
Enabled languages	Bash C C# C++ Java Pascal Perl PHP Python Ruby Text