## Tjandra 19th birthday (EASY)

This day (7 February 2013) is my 19th birthday So, I want to celebrate it on SPOJ by making this EASY puzzle problem.

This game/puzzle is about matches, given $\mathbf{n}$ matches, your task is to arrange the matches (not necessarily all) such that number of rectangle (any size) is maximum.

## Input

First line there is an integer $\mathbf{T} \leq 100$ then $\mathbf{T}$ lines follow, each line contain an integer $\mathrm{n}<1.000 .000 .000$.

## Output

For each test case, output required answer (maximum number of rectangles)

## Example

Input:
5
3
4
8
12
15

## Output:

0
1
3
9
12

## Explanation

-->First test case: No rectangle can be formed with only 3 matches
-->Second test case: Only one rectangle can be formed with 4 mathes
-->Third test case:
there are max 3 rectangles ( 2 size $1 \times 1,1$ size $2 \times 1$ ) can be formed with number of matches<=8, here is one of the mathes formation:

-->Fourth test case:
there are max 9 rectangles ( 4 size $1 \times 1,2$ size $2 \times 1$, 2 size $1 \times 2$, 1 size $2 \times 2$ ) can be formed with number of matches $<=12$, here is one of the formation:

-->Fifth test case:
there are max 12 rectangles ( 5 size $1 \times 1$, 3 size $2 \times 1$, 1 size $3 \times 1$, 2 size $1 \times 2$, 1 size $2 \times 2$ ) can be formed with number of matches $<=15$, here is one of the formation:


## Information

Time limit $\approx 150 x$ my program speed, Enjoy this birthday party game, I set this problem such that semi naive solution will pass..

## See also: Another problem added by Tjandra Satria Gunawan

