## **EXP**

1 second 256 MB

You are playing an on-line game consecutively for N days. On the i-th day, you gain an EXP point of  $X_i$  units. The game has bonuses for hard-working players. For every 4 days of consecutive playing, the EXP that you get on the 4<sup>th</sup> day will be doubled, i.e., if you gain an EXP of 150, you will get 300 on that day.

For example of you play the game for 9 days gaining the following EXP points (\* indicate the days with bonuses):

You total EXP is 1 + 2 + 3 + 8 + 5 + 6 + 7 + 16 + 9 = 57.

Write a program that reads daily EXP and output the total EXP.

## Input

The first line of the input contains an integer N (1<=N<=1,000). Each of the next N lines contains an EXP point gain for each day. The total EXP will not exceed 1,000,000,000.

## Output

You program should output the total EXP.

Example 1

Input	Output
9	57
1	
2	
3	
4	
5	
6	
7	
8	
9	

Example 2

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Input	Output
4	5
1	
1	
1	
1	