

Lucky 7, Unlucky 13

The numbers 7 and 13 are always fighting with each other. 7 says he's lucky, and calls 13 unlucky and upsets him. One day, 7 decided not to fight with 13 anymore. He called 13 and said, "Let's work together and not fight anymore. Let's find the sum of our Your job is to find the sum of the multiples of 7 and 13, lower than the specified input number.

Input

The first line in the data set is an integer T ($1 \leq T \leq 100$) that represents the number of test cases that follow. Each test case contains one integer N ($1 \leq N \leq 10^8$).

Output

For each test case print the summation. See sample input and output for exact format.

Example

Input:

```
3
256
100
38
```

Output:

```
Case 1: 6859
Case 2: 1008
Case 3: 144
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