

# Spending Money

Hasan has  $P$  taka. He goes a chocolate shop . The chocolate shop has only 'Kitkat' & 'Dairy Milk' . The price of a single 'Dairy milk' is  $M$  taka and a single 'Kitkat' is  $N$  taka .

If any person wish to buy 'Dairy Milk' , he/she must have to be buy exatly 1 or 2 or 4 or 8 'Dairy Milks' at a time .

If any person wish to buy 'kitkat' , he/she must have to be buy exatly 7 or 14 or 28 'kitkats' at a time .

Hasan wants to spend as much money as he can . As, Hasan is weak in mathematics,he wants your help.

Now,you need to calcuatue the minimum remaining money that Hasan will have after buying chocolates.

## Input

First line contains a positive integer  $T$ , which is the number of testcase.

In each testcase there will be three integers  $P$  ,  $M$  ,  $N$ .

$$1 \leq T \leq 25$$

$$1 \leq P \leq 3 \cdot 10^{10}$$

$$30 \leq M, N \leq 10^{10}$$

The summation of all  $P$  in all testcase will not exceed  $1.2 \cdot 10^{11}$

## Output

For each testcase print the minimum money that Hasan will have after buying chocolates in one line.

See the sample input outout for better understanding.

## Example

**Input:**

```
3
150 30 35
167 40 35
99999989 31 31
```

**Output:**

```
0
```

