

Sum of two numbers in base 18 format

Description

Write a function `int_to_base18` that can convert an integer into another integer in a number of base 18 (新18進位New hexadecimal denoted by 0y0000). New 0~9,10~17 will be presented as ‘0’~’9’,‘A’~’H’ respectively.

Given two numbers which can be either normal integer or new hexadecimal, print the sum of two numbers in the new hexadecimal format.

Note: You have to use switch statement in function `int_to_base18` to accomplish this assignment.

Input

A single line that contains 1 number `t`, `t` is the number of test cases.

Next `t` lines that contains two numbers `n` and `m`. As mentioned above they may be in decimal or base 18 format.

Constraints:

- $1 \leq t \leq 200$
- $0 \leq n \leq 2147483647$ (in decimal)
- $0 \leq m \leq 2147483647$ (in decimal)

Note: The base18 format of 0 is 0y0

Output

Output sum of the 2 numbers in base 18 format. Each test case's answer needs to be separated by a new line.

Note: The sum of the 2 numbers won't exceed2147483647(in decimal), that is

$0 \leq \text{sum} \leq 2147483647$ (in decimal)

Note: The base18 format of 0 is 0y0

Sample Input 1

```
4
27182818 1414213
123421 0y1H
0y8D10H 31415926
0y58H99 0y12B01
```

Sample Output 1

```
Sum in hexadecimal number is: 0yF2787H
Sum in hexadecimal number is: 0y1330C
Sum in hexadecimal number is: 0yH1HFE3
Sum in hexadecimal number is: 0y6BA9A
```

Hint

You MUST include function `int_to_base18(int n)` in your code and TAs will check whether you use switch statement in the function and whether you implement the logic to convert input `n` to base18 format.

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ID mid_03

Time Limit 1000MS

Memory Limit 256MB

IO Mode Standard IO

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Level Low

Score 100

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