

Limited Infinite Set

Given two numbers x and l. You were asked to output the biggest number in the set S. S is a set that contains x and each of the set member multiplied by 3, 4, and 5. l denotes the limit of biggest possible number in the set. For example, if x = 1 and l = 10, then the set will become 1, 3, 4, 5, 9.

Format Input

The first line of the input contains T, the number of test cases. For each T next lines, there are 2 integers x and l.

Format Output

For each test case, output in format Case #X: Y. Where X denotes the test case number and Y denotes the biggest number in the set.

Constraints

- $1 \le T \le 1000$
- $1 \le x \le 100$
- $10 \le l \le 1000$
- $3x \le l$

Sample Input (standard input)

Sample Output (standard output)

Case #1: 9 Case #2: 12

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Diberikan dua bilangan x dan l. Anda diminta untuk mengeluarkan bilangan terbesar dari himpunan S. S adalah sebuah himpunan yang mengandung x dan setiap anggota himpunan tersebut dikalikan dengan 3, 4, dan 5. Sedangkan l menyatakan limit angka terbesar dari himpunan tersebut. Sebagai contoh, jika x=1 dan l=10, maka himpunan akan menjadi 1, 3, 4, 5, 9.

Format Input

Baris pertama dari input berisikan T, jumlah kasus uji. Untuk T baris selanjutnya, terdapat 2 bilangan x dan l.

Format Output

Untuk masing-masing kasus uji, keluarkan dalam format Case #X: Y. Dimana X menyatakan nomor kasus uji dan Y menyatakan hasil jumlah dari dua bilangan terbesar yang ada di himpunan.

Constraints

- $1 \le T \le 1000$
- $1 \le x \le 100$
- $10 \le l \le 1000$
- $3x \leq l$

Sample Input (standard input)

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1 12

Sample Output (standard output)

Case #1: 9 Case #2: 12

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