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URI Online Judge I 1030

Flavious Josephus Legend

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1030



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BOOK SUGGESTION

The Josephus' problem is known because of the Flavius Josephus' legend, a Jewish historian living in the 1st century. According to Josephus' account of the siege of Yodfat, he and his 40 comrade soldiers were trapped in a cave, the exit of which one was blocked by Romans. They chose suicide over capture and decided that they would form a circle and start killing themselves skipping three in three. Josephus says that, by luck or maybe by the hand of God, he remained the last and gave up to the Romans."

Input

There are NC (1 \leq NC \leq 30) test cases. In each input test case there will be a pair of positive integer numbers n (1 $\leq n \leq$ 10000) and k (1 $\leq k \leq$ 1000). The number \mathbf{n} represents the quantity of people in the circle, numbered from 1 to \mathbf{n} . The number \mathbf{k} represents the size of step between two men in the circle.





The data must be read from standard input.

Output

For each test case we will have an output line, presenting in the following format: Case n: m always with a space before n and m.

Output Sample	Input Sample
3	Case 1: 3
5 2	Case 2: 1
6 3	Case 3: 25
1234 233	



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