Problem F QUEEN OF SPADES

File name: F. {java,c,cpp}

You're given a pile of N playing cards. K of the N cards are the Queen of Spades. You draw two cards from the pile uniformly at random. The probability that both cards are the Queen of Spades is A/B for some integers A and B.

Given A and B, output N and K.

Program Input

The first line of input is the number of test cases $T(1 \le T \le 100)$. The next T lines contain a test case of the format "A B". The values of A and B will each fit in 32-bit integers.

Program Output

For each test case, output the pair of integers N ($2 \le N \le 10^6$) and K ($2 \le K \le N$) on a line separated by a single space. If more than one solution exists, output the one with lowest N.

Sample Input & Output

INPUT	\mathbf{O}	U	T	P	U	T	
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3	8 7
3 4	4 2
1 6	34846 21091
37 101	

