Problems

A. A Sourvenir
B. Milk Can
C. Beauty Prime Numbers
D. Divisible by 7
E. Prof. PVH and the country of 16
F. Palindrome Counter
G. All for The Central Region
H. A Kind of Multicore Virtual Server
I. Crystal Ball
J. Evacuation
K. Assigning course
L. Constant strings
M. Supsub

Do not open before the contest has started.

Advice, hints, and general information

- The problems are not sorted by difficulty.
- Your solution programs must read input from *standard input* (e.g. System.in in Java or cin in C++) and write output to *standard output* (e.g. System.out in Java or cout in C++). For further details and examples, please refer to your administrator guide and Domjudge documentation.
- For information about which compiler flags and versions are used, please refer to your administrator guide. (Python 2.7.17, Oracle Java 1.8.0_144, gcc 7.5.0 (C, C++ std14)).
- Your submissions will be run multiple times, on several different inputs. If your submission is incorrect, the error message you get will be the error exhibited on the first input on which you failed.
    - E.g., if your instance is prone to crash but also incorrect, your submission may be judged as either "Wrong Answer" or "Run Time Error", depending on which is discovered first. The inputs for a problem will always be tested in the same order.
- If you think some problem is ambiguous or underspecified, you may ask the judges for a clarification request through the Domjudge system. The most likely response is "No comment, read problem statement", indicating that the answer can be deduced by carefully reading the problem statement or by checking the sample test cases given in the problem, or that the answer to the question is simply irrelevant to solving the problem.
- In general, we are lenient with small formatting errors in the output, in particular whitespace errors within reason, and upper/lower case errors are often (but not always) ignored. But not printing any spaces at all (e.g. missing the space in the string "1 2" so that it becomes "12") is typically not accepted. The safest way to get accepted is to follow the output format exactly.
- For problems with floating point output, we only require that your output is correct up to some error tolerance. For example, if the problem requires the output to be within either absolute or relative error of 10^{-4}, this means that
    - If the correct answer is 0.05, any answer between 0.0499 and .0501 will be accepted.
    - If the correct answer is 500, any answer between 499.95 and 500.05 will be accepted.
- Any reasonable format for floating point numbers is acceptable. For instance, "17.000000", "0.17e2", and "17" are all acceptable ways of formatting the number 17. For the definition of reasonable, please use your common sense.

Problem A
A Sourvenir

Time Limit: 1 seconds
Memory Limit: 512 Megabytes

Problem description

Mr. Bean is selected to be a contestant member of Elon_Musk's University which is located in Mars to compete in ICPC Can Tho. This will be the first time he visits the city of Can Tho and the Mekong Delta.

Next to the hotel he stays in Can Tho is a souvenir shop where you can buy all specialties of this region. The shop has N items, numbered 1 to N. Item i has the price of i dong. Bean has K dong and he wants to buy as many distinct items as possible.

Given N and K, your task is to calculate how many different items Mr. Bean can buy?

Input

The input consists of multiple test cases. It starts with T - the number of test cases. Then each test case is printed in one line, containing two integers N and K. (1 <= N <= 100, 0 <= K <= 10000).

Output

For each test case, print the maximal number of souvenirs Mr. Bean can buy.

Example:

Input
2 10 4 10 1000
Output
2 10

A relax page, open to next page for the next challenge in your journey to the TOP.