# A test of "fundamentals of programming" – 20 November 2016

## Task 6 . The maximum number of combinations

To **write a** **program**that **prints all the possible combinations with** **pairs of numbers from a given interval with a beginning and an end, which is read from the console**by console read and **one more number**, which **indicates the maximum number of combinations** which can be print**. If you reach this number of combinations, the program must be completed**.

### Login

From the console is **read exactly three numbers**, each on **a separate line**:

        **Home on the range**– **General number**in the range**[1...200]**

        **End of interval**– **a whole number**in the range**[start of interval... 200]**

        **The maximum number of combinations – integer**in the interval**[1...50000]**

### Exit

|  |  |
| --- | --- |
| |  | | --- | | **<{1st number }–{second number} >< {1, number}–{second number}>...** | |

The console shall be **printed on one line** all the battles in the following format:

### Sample input and output

|  |  |
| --- | --- |
| **Login** | **Exit** |
| 1  4  5 | <1-1><1-2><1-3><1-4><2-1> |
| **Login** | **Exit** |
| 69  71  100 | <69-69><69-70><69-71><70-69><70-70><70-71><71-69><71-70><71-71> |
| **Login** | **Exit** |
| 45  120  20 | <45-45><45-46><45-47><45-48><45-49><45-50><45-51><45-52><45-53><45-54><45- 5 5><45-56><45-57><45-58><45-59><45-60><45-61><45-62><45-63><45-64> |
| **Explanations** | |
| Combinations with two numbers between 45 and 120 are but a 5776 maximum number is 20, so the program ends at 20 printed combinations | |