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CHANDIGARH
UNIVERSITY

LIVE EVENTS 5

Code Chronicles

Sep 10, 2018, 06:00 PM IST - Sep 13, 2018, 12:00 AM IST

INSTRUCTIONS   PROBLEMS   SUBMISSIONS   JUDGE

← Problems / Split Square Range

Split Square Range

Max. Marks: 30

PROBLEM   EDITORIAL   MY SUBMISSIONS

Find the positive whole numbers in a given range *r* to *s* (*r* is the lower limit and *s* is the upper limit) which fulfill the following criteria. When we square the whole number *n* containing *d* digits we end up having a number which either has *(2xd)* or *(2xd)-1* digits. Split the number into two parts. The right-hand part should be *d* digits long, the remaining is the left part. Add the two parts of the number to see if you get back the original number *n*.

Input:

Two integer values **r** and **s**

Output:

Possible values separated by space.

Constraints:

$1 <= r < 10^5$

$1 <= s < 10^5$

SAMPLE INPUT	🔗 ⧉
1 100	

SAMPLE OUTPUT	🔗 ⧉
1 9 45 55 99	

Explanation

Input :

1

100

Output :

1 9 45 55 99

n = 1, d = 1, n^2 = 1 left part = 1 right part = 0 sum = 1

n = 9, d = 1, n^2 = 81 left part = 8 right part = 1 sum = 9

n = 45, d = 2, n^2 = 2025 left part = 20 right part = 25 sum = 45

n = 55, d = 2, n^2 = 3025 left part = 30 right part = 25 sum = 55

n = 99, d = 2, n^2 = 9801 left part = 98 right part = 1 sum = 99

else INVALID RANGE

Time Limit:	5.0 sec(s) for each input file.
Memory Limit:	256 MB
Source Limit:	1024 KB
Marking Scheme:	Marks are awarded if any testcase passes.
Allowed Languages:	Bash, C, C++, C++14, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Swift, Swift-4.1, Visual Basic

CODE EDITOR

Enter your code or Upload your code as file.   Save   Bash (GNU bash, version 4.3 ▾

```
1  # Sample bash code
2
```

1:1

▣ Provide custom input

COMPILE & TEST   **SUBMIT**

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