Practice Arena

Practice problems aimed to improve your coding skills.

- PRACTICE-02_SCAN-PRINT
- PRACTICE-03_TYPES
- LAB-PRAC-02_SCAN-PRINT
  - Mr C goes on a diet
  - Permute Password
  - Escapes around Tutors
  - Amusing Fractions
  - P and C
  - Build a Rhombus
  - Developing Interest at IITK
  - Pick your Choice
  - Lego Safe
  - Race Car
  - Reverse Gear
  - Numerical Flowers
- LAB-PRAC-01
- PRACTICE-04_COND
- BONUS-PRAC-02
- LAB-PRAC-03_TYPES
- PRACTICE-05_COND-LOOPS
- LAB-PRAC-04_COND
- LAB-PRAC-05_CONDLOOPS
- PRACTICE-07_LOOPS-ARR
- LAB-PRAC-06_LOOPS
- LAB-PRAC-07_LOOPS-ARR
- LABEXAM-PRAC-01_MIDSEM
- PRACTICE-09_PTR-MAT
- LAB-PRAC-08_ARR-STR
- PRACTICE-10_MAT-FUN
- LAB-PRAC-09_PTR-MAT
- LAB-PRAC-10_MAT-FUN
- PRACTICE-11_FUN-PTR
- LAB-PRAC-11_FUN-PTR
- LAB-PRAC-12_FUN-STRUC
- LABEXAM-PRAC-02_ENDSEM
- LAB-PRAC-13_STRUC-NUM
- LAB-PRAC-14_SORT-MISC

Build a Rhombus

LAB-PRAC-02_SCAN-PRINT

Build a Rhombus [10 marks]

Problem Statement
You will be given a single digit number as input. You need to print the number in the format given below. For example, if the digit is 1, print the following pattern,

```
1
11
111
1111
1111
 111
  11
   1
```

Caution

1. Take good care not to have extra/missing spaces or extra/missing lines in your output. These will fail an exact match and the autograder will give you a zero.
2. Do not use any library other than stdio.h
3. The code to take in an input (using scanf) has already been provided to you.

HINTS:

1. Make sure your code can handle all digits.

INPUT:
A single digit from 0-9
OUTPUT:
A rhombus design made completely out of that digit (see below)

EXAMPLE:
INPUT
1
OUTPUT:

```
1
11
111
1111
1111
 111
  11
   1
```

Grading Scheme:
Total marks: **[10 Points]**

There will be no partial grading in this question. An exact match will receive full marks whereas an incomplete match will receive 0 marks. Please be careful of missing/extra spaces and missing/lines (take help of visible test cases). Each visible test case is worth 2 points and each hidden test case is worth 4 points.

Start Solving! (/editor/practice/5954)