



# ✓ Prime Triangle

Java May'19 Advanced Practice 4 - 1 day 01:57:53

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✓ **Points:** 100 (partial)

⌚ **Time limit:** 0.5s

📄 **Memory limit:** 32M

✍ **Author:**

steven

🏷 **Tags**

Loops

⬆ **Difficulty**

Intermediate

▼ **Allowed languages**

C#, java, JavaScript

We know that you love math, so we have prepared a very interesting task, that involves both geometry and prime numbers.

By a given **N** number, from which you need to generate a sequence of **1 to N** inclusive. For every prime number in that sequence, you need to print out all the other numbers before it (and the number itself), whether they are prime or not

## Example

Let's say **N=10**

- We have the sequence **1, 2, 3, 4, 5, 6, 7, 8, 9, 10**
- The prime numbers are **1, 2, 3, 5, 7** - **5 prime numbers**, so we **prive 5 rows**
- Each row contains all the numbers for **1 to PRIME\_NUMBER**

**Result:**

**1**

**1 2**

**1 2 3**

**1 2 3 4 5**

**1 2 3 4 5 6 7**

Lets make things simpler:

**Final result:**[Java May'19 Advanced Practice 4 - 1 day 01:57:53](#)

```
1
1 1
1 1 1
1 1 1 0 1
1 1 1 0 1 0 1
```

## Input

- Read from the standard input
- On the single line, find the number **N**

## Output

- Print on the standard output
- The output should consist of several lines of digits each of which can be either 1 or 0
  - Without any space between them

## Sample tests

### Input

```
10
```

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### Output

```
1
11
111
11101
1110101
```

[Copy](#)

### Input

```
27
```

[Copy](#)

### Output



```
11
111
11101
1110101
11101010001
1110101000101
11101010001010001
1110101000101000101
11101010001010001010001
```

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## Constraints

- The input data will always be valid and in the format described. There is no need to check it explicitly

## ? Clarifications

No clarifications have been made at this time.