# Prime Triangle

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:

- Print **0** if the numbers is **not prime**
- Print **1** if the number is **prime**

**Final result**:

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
```

## Output

```
1
11
111
11101
1110101
```

## Input

```
27
```

## Output

```
1
11
111
11101
1110101
11101010001
1110101000101
11101010001010001
111010100010100010001
11101010001010001010001
```

# Constraints

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

explicitly