

### 3I Find a $k$ -Universal Circular String

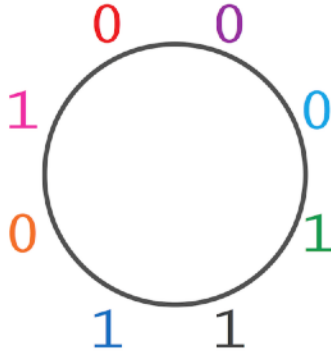
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#### $k$ -Universal Circular String Problem

Find a  $k$ -universal circular binary string.

**Input:** An integer  $k$ .

**Output:** A  $k$ -universal circular binary string.



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#### Formatting

**Input:** An integer  $k$ .

**Output:** A binary string representing a  $k$ -universal circular string.

#### Constraints

- The value of  $k$  will be between 1 and  $10^1$ .

## Test Cases

### Case 1

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**Description:** The sample dataset is not actually run on your code.

**Input:**

3

**Output:**

00111010

### Case 2

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**Description:** The sample dataset is not actually run on your code.

**Input:**

4

**Output:**

1010111100100001

### Case 3

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**Description:** A larger dataset of the same size as that provided by the randomized autograder. Check input/output folders for this dataset.