

# Easy Equation

There is an equation for you:

$$A \text{ MOD } B = C, \text{ where } A > B$$

What is the maximum value of C when B is given?

## Input

Input starts with an integer **T** ( $\leq 100$ ) denoting the number of test cases.

Each test case contains a number **B** ( $2 \leq B \leq 10^{100000}$ ).

## Output

For each case, output the expected result.

## Example

**Input:**

4  
2  
15  
1005  
365

**Output:**

1  
14  
1004  
364

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