

String Formatting

Task

Read the integer, N and print the decimal, octal, hexadecimal, and binary values from 1 to N with space padding so that all fields take the same width as the binary value.

Input Format

The first line contains an integer, N .

Constraints

$$1 \leq N \leq 99$$

Output Format

Print N lines. Format the fields as the width of the binary value of N .

Sample Input

17

Sample Output

1 1 1 1
2 2 2 10
3 3 3 11
4 4 4 100
5 5 5 101
6 6 6 110
7 7 7 111
8 10 8 1000
9 11 9 1001
10 12 A 1010
11 13 B 1011
12 14 C 1100
13 15 D 1101
14 16 E 1110
15 17 F 1111
16 20 10 10000
17 21 11 10001