

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

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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