

String Formatting

Given an integer, n , print the following values for each integer i from 1 to n :

1. Decimal
2. Octal
3. Hexadecimal (capitalized)
4. Binary

The four values must be printed on a single line *in the order specified above* for each i from 1 to n . Each value should be space-padded to match the width of the *binary* value of n .

Input Format

A single integer denoting n .

Constraints

- $1 \leq n \leq 99$

Output Format

Print n lines where each line i (in the range $1 \leq i \leq n$) contains the respective decimal, octal, capitalized hexadecimal, and binary values of i . Each printed value must be formatted to 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
```