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
```