

Print Pretty

Your manager gave you a text file with many lines of numbers to format and print. For each row of **3** space-separated doubles, format and print the numbers using the specifications in the *Output Format* section below.

Input Format

The first line contains an integer, *T*, the number of test cases.
Each of the *T* subsequent lines describes a test case as **3** space-separated floating-point numbers: *A*, *B*, and *C*, respectively.

Constraints

- $1 \leq T \leq 1000$
- Each number will fit into a double.

Output Format

For each test case, print **3** lines containing the formatted *A*, *B*, and *C*, respectively. Each *A*, *B*, and *C* must be formatted as follows:

1. *A*: Strip its decimal (i.e., truncate it) and print its hexadecimal representation (including the **0x** prefix) in lower case letters.
2. *B*: Print it to a scale of **2** decimal places, preceded by a **+** or **-** sign (indicating if it's positive or negative), right justified, and left-padded with underscores so that the printed result is exactly **15** characters wide.
3. *C*: Print it to a scale of exactly nine decimal places, expressed in scientific notation using upper case.

Sample Input

```
1
100.345 2006.008 2331.41592653498
```

Sample Output

```
0x64
      +2006.01
2.331415927E+03
```

Explanation

For the first line of output, $(100)_{10} \rightarrow (64)_{16}$ (in reverse, $6 \times 16^1 + 4 \times 16^0 = (100)_{10}$).
The second and third lines of output are formatted as described in the *Output Format* section.