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Try the Next Challenge

Print Pretty

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Problem Submissions Leaderboard Discussions Editorial

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.

Easy Submitted 6189 times
Max Score 20

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Suggest Edits

Current Buffer (saved locally, editable) C++14

```cpp
#include ↔
using namespace std;

int main() {
    int T; cin >> T;
    cout << setiosflags(ios::uppercase);
    cout << setw(0xf) << internal;
    while(T--) {
        double A; cin >> A;
        double B; cin >> B;
        double C; cin >> C;
 // LINE 1
        std::cout << std::hex << std::left << std::showbase << std::nouppercase; // formatting
        std::cout << (long long) A << '\n'; // actual printed part

        // LINE 2
        std::cout << std::dec << std::right << std::setw(15) << std::setfill('_')
                  << std::showpos << std::fixed << std::setprecision(2); // formatting
        std::cout << B << '\n'; // actual printed part

        // LINE 3
        std::cout << std::scientific << std::uppercase << std::noshowpos
                  << std::setprecision(9); // formatting
        std::cout << C << '\n'; // actual


    }
    return 0;

}
```

Line: 25 Col: 42

Upload Code as File Test against custom input Run Code Submit Code

Congrats, you solved this challenge!

Challenge your friends:

- ✔ Test Case #0
- ✔ Test Case #1
- ✔ Test Case #2
- ✔ Test Case #3
- ✔ Test Case #4
- ✔ Test Case #5
- ✔ Test Case #6
- ✔ Test Case #7
- ✔ Test Case #8

✔ Test Case #9

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