

Files to submit: scientificFloating.cpp

Time it took Matthew to complete: ?

程序代写代做 CS编程辅导

- All programs must compile without warnings when using the -Wall and -Werror options
- Submit only the files requested
 - Do **NOT** submit folders or compressed files such as .zip, .rar, .tar, .targz, etc
- If submitting in a pair please make sure to mark your partner.
 - Only one of you should submit
- Your program must compile exactly to receive credit.
 - Make sure the input match mine exactly.
 - Easiest way to test is to copy and paste them
- All input will be as shown otherwise
- Print all real numbers in decimal places unless otherwise stated
- The examples provided in the prompts do not represent all possible input you can receive.
- All inputs in the examples in the prompt are underlined
 - You don't have to make anything underlined it is just there to help you differentiate between what you are supposed to print and what is being given to your program
- If you have questions please post them on Piazza



WeChat: cstutorcs

Assignment Project Exam Help

Write a C++ program called **scientificFloating.cpp** that reads in a floating point number and outputs its scientific base 2 format.

1. Example 1:

Please enter a float: 1.111E1
1.111E1

2. Example 2:

Please enter a float: 1.0001100000011001100110011001E0
1.0001100000011001100110011001E0

- You should use bitwise operators to pick out the fields that you need to work with.
- In order to do the appropriate bitwise operations on the float it must first be cast to an int but (int) f (assuming f is the variable you have stored your float in) will not work as the cast will convert the float representation to the 2's compliment integer representation. The fix is to take the address of the float, cast it as an unsigned int*, and then dereference
 - unsigned int float_int = *((unsigned int*)&f);

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