CS331 Assignment -4

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There are three parts in the question (Part A, Part B, Part C). All the three parts are handled using the same source code(180101033.hs)

How to run the program:
1) Type **ghci** on the terminal(Open the terminal in the program's directory)
2) Load the program using > **:l 180101033.hs**
3) To run normally, type **main** on the terminal, and provide comma separated integers when prompted on the terminal. (For ex- 10,9,5,6,8)
4) To run testcases, type **testcases** on the terminal.

The commands and the corresponding output are shown in the screenshot below:

```
krtky@krtky-G3-3579:~/Desktop/180101033$ ghci
GHCi, version 8.6.5: http://www.haskell.org/ghc/  :? for help
Prelude> :l 180101033.hs
[1 of 1] Compiling Main             ( 180101033.hs, interpreted )
Ok, one module loaded.
*Main> testcases


--------------- START A ------------------------------
Part A start:
Entered list of integers: [3,2,35,3,2,3,4,5,5,23,26,89,-2]
--------------- END A ------------------------------

--------------- START B ------------------------------
Part B start:
LCM of the entered list of integers is: 11176620
--------------- END B------------------------------

--------------- START C------------------------------
Part C start:
Inorder traversal of the entered list of integers is: [-2,2,2,3,3,3,4,5,5,23,26,35,89]
PreOrder traversal of the entered list of integers is: [3,2,2,-2,3,3,35,4,5,5,23,26,89]
PostOrder traversal of the entered list of integers is: [-2,2,3,3,2,5,26,23,5,4,89,35,3]
--------------- END C------------------------------

--------------- START A ------------------------------
Part A start:
Entered list of integers: [-3,2,-35,3,-2,3,-4,5,-5,23]
--------------- END A ------------------------------

--------------- START B ------------------------------
Part B start:
LCM of the entered list of integers is: 9660
--------------- END B------------------------------

--------------- START C------------------------------
Part C start:
Inorder traversal of the entered list of integers is: [-35,-5,-4,-3,-2,2,3,3,5,23]
PreOrder traversal of the entered list of integers is: [-3,-35,-4,-5,2,-2,3,3,5,23]
PostOrder traversal of the entered list of integers is: [-5,-4,-35,-2,3,23,5,3,2,-3]
--------------- END C------------------------------

--------------- START A ------------------------------
Part A start:
Entered list of integers: [0,35,0,2,-3,0,5,-8,56,85,23,-256]
--------------- END A ------------------------------

--------------- START B ------------------------------
Part B start:
LCM of the entered list of integers is: 0
--------------- END B------------------------------

--------------- START C------------------------------
Part C start:
Inorder traversal of the entered list of integers is: [-256,-8,-3,0,0,0,2,5,23,35,56,85]
PreOrder traversal of the entered list of integers is: [0,0,-3,-8,-256,0,35,2,5,23,56,85]
PostOrder traversal of the entered list of integers is: [-256,-8,0,-3,0,23,5,2,85,56,35,0]
```

For any query or problem in running the code, contact me. Email: kartikay@iitg.ac.in Phone number: 8397078667