Submission Detail

ID	#467323
Problem	TheFunctionWithin (https://ejudge.it.kmitl.ac.th/problem/2631)
Username	it60070183(นายธีรภัทร ไกรศรีสิริกุล) (https://ejudge.it.kmitl.ac.th/account/1506)
Language	Python
Correctness Score	100 Points
Bonus Score	100 Points
Quality	100% How to improve your code
Summary Score	200 Points
Time	2017-08-10 15:16:01

Details

Case 1 [#11635] :	Passed	**0.02633000 sec.**
Case 2 [#11636] :	Passed	**0.02920200 sec.**
Case 3 [#11637] :	Passed	**0.02631900 sec.**
Case 4 [#11638] :	Passed	**0.02650700 sec.**
Case 5 [#11639] :	Passed	**0.02693500 sec.**
Case 6 [#11640] :	Passed	**0.02626400 sec.**
Case 7 [#11641] :	Passed	**0.02637400 sec.**
Case 8 [#11642] :	Passed	**0.02690600 sec.**
Case 9 [#11643] :	Passed	**0.02611300 sec.**
Case 10 [#11644] :	Passed	**0.02521200 sec.**

Code

Pointers=false&textReferences=false&showOnlyOutputs=false&py=3&rawInputLstJSON=%5B%5D&curInstr=0)

```
"""
PSIT (10/08/2017)
it60070090 : Wiput Pootong
it60070183 : Teerapat Kraisrisirikul
"""

def main():
    """Main Function"""
    var_a = float(input())
    var_b = float(input())
    var_c = float(input())
    var_d = float(input())

    print(fn_f(fn_f(var_a)))
    print(fn_g(fn_f(var_a - var_b)))
    print(fn_h(fn_f(var_a + var_b), fn_f(var_a + var_c), fn_g(fn_f(var_d**2))))
    parameter_a = fn_h(fn_f(var_a + var_b), fn_f(var_a - var_c), fn_g(fn_f(var_d
    parameter_b = fn_g(fn_f(var_a - var_b))
    parameter_c = fn_f(fn_f(fn_f(fn_f(fn_f(var_c)))))
    parameter_d = var_d ** 8
    print(fn_i(parameter_a, parameter_b, parameter_c, parameter_d))


def fn_f(var_x):
    """ Calculate function f(x) and return result """
    return var_x * 2

def fn_g(var_x):
    """ Calculate function g(x) and return result """
    result = 3*var_x**4 - var_x**3 + 2*var_x**2 + 10
    return result

def fn_h(var_x, var_y, var_z):
    """ Calculate function h(x, y, z) and return result """
    result = (var_z + var_x)**2 - var_x*var_y + var_y**2
    return result

def fn_i(var_a, var_b, var_c, var_d):
    """ Calculate function i(a, b, c, d) and return result """
    result = (var_a ** 2 + var_b ** 2 - var_c ** 2)/(var_d**2 - 2*var_a*var_d +
    return result

main()
```