☰ Submission Detail

ID	#508633
Problem	FibonacciRecursionV2 (https://ejudge.it.kmitl.ac.th/problem/2938)
Username	it60070183(นายธีรภัทร ไกรศรีสิริกุล) (https://ejudge.it.kmitl.ac.th/account/1506)
Language	Python
Correctness Score	100 Points
Bonus Score	900 Points
Quality	100% [How to improve your code]
Summary Score	1000 Points
Time	2017-10-26 00:59:40

➜ Details

Case 1 [#12596] :	Passed	0.04361300 sec.
Case 2 [#12597] :	Passed	0.04363200 sec.
Case 3 [#12598] :	Passed	0.04367700 sec.
Case 4 [#12599] :	Passed	0.04332700 sec.
Case 5 [#12600] :	Passed	0.04360300 sec.
Case 6 [#12601] :	Passed	0.04317200 sec.
Case 7 [#12602] :	Passed	0.04320900 sec.
Case 8 [#12603] :	Passed	0.04447500 sec.
Case 9 [#12604] :	Passed	0.06292400 sec.
Case 10 [#12605] :	Passed	0.04570500 sec.
Case 11 [#12606] :	Passed	0.04341300 sec.
Case 12 [#12607] :	Passed	0.04333700 sec.
Case 13 [#12608] :	Passed	0.04344400 sec.
Case 14 [#12609] :	Passed	0.04328100 sec.
Case 15 [#12610] :	Passed	0.04354500 sec.
Case 16 [#12611] :	Passed	0.04329400 sec.
Case 17 [#12612] :	Passed	0.04365400 sec.
Case 18 [#12613] :	Passed	0.04336300 sec.
Case 19 [#12614] :	Passed	0.04784100 sec.
Case 20 [#12615] :	Passed	0.04385100 sec.
Case 21 [#12672] :	Passed	0.04341100 sec.
Case 22 [#12679] :	Passed	0.04326400 sec.
Case 23 [#12680] :	Passed	0.04337200 sec.
Case 24 [#12681] :	Passed	0.04336300 sec.

Case 25 [#12682] : [Passed]   0.04387500 sec.

🖥 Code

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

```python
"""
PSIT - Week 10
Teerapat Kraisrisirikul (60070183)
"""

def main():
    """ Main function """
    print(fibo(int(input()))[0])

def fibo(num):
    """ Fast doubling """
    if num == 0:
        return (0, 1)
    else:
        var_a, var_b = fibo(num//2)
        var_c = var_a * (var_b * 2 - var_a)
        var_d = var_a**2 + var_b**2
        if num % 2 == 0:
            return (var_c, var_d)
        else:
            return (var_d, var_c + var_d)

main()
```