☰ Submission Detail

ID	#506138
Problem	Perfect (https://ejudge.it.kmitl.ac.th/problem/2915)
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	2017-10-19 20:28:18

➡️ Details

Case 1 [#4545] : **Passed**　0.04293800 sec.
Case 2 [#4546] : **Passed**　0.04297500 sec.
Case 3 [#4547] : **Passed**　0.04435500 sec.
Case 4 [#4548] : **Passed**　0.04328900 sec.
Case 5 [#4549] : **Passed**　0.04315100 sec.

🖥 Code

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

```python
"""
PSIT Pair-Programming (19th October 2017)
#1 - Supakit Theanthunyakit (it6007098)
#2 - Teerapat Kraisrisirikul (it60070183)
"""

import math

def main():
    """ Main function """
    num = int(input())
    perfects = 0

    exp = 2
    while True:
        if check_prime((2**exp)-1) and (2**(exp-1))*((2**exp)-1) <= num:
            perfects += (2**(exp-1))*((2**exp)-1)
        elif (2**(exp-1))*((2**exp)-1) > num:
            break
        exp += 1

    print(perfects)

def check_prime(num):
    """ ... """
    is_prime = bool(num >= 2)

    for i in range(2, int(math.sqrt(num))+1):
        if num % i == 0:
            is_prime = False
            break

    return is_prime

main()
```