# ☰ Submission Detail

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|---|---|
| **ID** | #508526 |
| **Problem** | GCD_N (https://ejudge.it.kmitl.ac.th/problem/2931) |
| **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** | 2017-10-25 21:15:15 |

# ➡️ Details

**Case 1** [#5010] : Passed    0.13491600 sec.
**Case 2** [#5011] : Passed    0.04167900 sec.
**Case 3** [#5012] : Passed    0.04053100 sec.
**Case 4** [#5013] : Passed    0.04778000 sec.
**Case 5** [#5014] : Passed    0.04206200 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 """
    numbers, divisors = list(), list()
    for _ in range(int(input())):
        numbers.append(int(input()))

    #Calculate all divisors available
    end = False
    while True:
        num = 2
        while True:
            if is_dividable(numbers, num):
                divide_all(numbers, num)
                divisors.append(num)
                break
            elif num > min(numbers):
                end = True
                break
            num += 1
        if end:
            break

    print(multiply_all(divisors))

def is_dividable(numbers, divisor):
    """ Check if all numbers in a list can be divided by a certain number """
    for i in numbers:
        if i % divisor != 0:
            return False
    return True

def divide_all(numbers, divisor):
    """ Divide all numbers in a list with a certain number """
    for i in range(len(numbers)):
        numbers[i] //= divisor

def multiply_all(numbers):
    """ Multiply all numbers in a list """
    num = 1
    for i in numbers:
        num *= i
    return num

main()
```