

标签 线性筛 下的文章

🏠 首页 (<https://blog.orzsiyuan.com/>) / 线性筛

「Luogu 5106」 dkw 的 lcm (<https://blog.orzsiyuan.com/archives/Luogu-5106-Dkw-LCM/>)

题目链接: Luogu 5106 (<https://www.luogu.org/problemnew/show/P5106>)

善良的 dkw 决定直接告诉你题面:

$$\prod_{i_1=1}^n \prod_{i_2=1}^n \cdots \prod_{i_k=1}^n \varphi(\text{lcm}(i_1, i_2, \dots, i_k))$$

请你求上述式子, 答案对 $10^9 + 7$ 取模。

其中 $\text{lcm}(i_1, i_2, \dots, i_k)$ 表示这 k 个数的最小公倍数。特别地, 一个数的 lcm 是自身。

数据范围: $1 \leq n, k \leq 10^6$ 。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⚡ 2019 年 03 月 18 日

「Codeforces 402D」 Upgrading Array
(<https://blog.orzsiyuan.com/archives/Codeforces-402D-Upgrading-Array/>)

题目链接: Codeforces 402D (<https://codeforces.com/contest/402/problem/D>)

你有一个长度为 n 的正整数数组 a_1, a_2, \dots, a_n 和 m 个坏的质数 b_1, b_2, \dots, b_m , 其余的质数称为好的。数组 a 的美丽度定义为 $\sum_{i=1}^n f(a_i)$, 其中 $f(x)$ 为如下定义:

$$f(x) = \begin{cases} 1 & x = 1 \\ f\left(\frac{x}{p}\right) + 1 & p \text{ 为 } x \text{ 的最小质因子, } p \text{ 是好的质数} \\ f\left(\frac{x}{p}\right) - 1 & p \text{ 为 } x \text{ 的最小质因子, } p \text{ 是坏的质数} \end{cases}$$

你可以进行无限次操作, 每次操作为如下形式:

- 选择一个数字 r 满足 $1 \leq r \leq n$, 计算出 $g = \gcd(a_1, a_2, \dots, a_r)$ 。
- 对于所有的整数 $i \in [1, r]$, 将所有的 a_i 除以 g 。

经过若干次操作, 求出数组 a 美丽度的最大值。

数据范围: $1 \leq n, m \leq 5 \times 10^3$, $1 \leq a_i, b_i \leq 10^9$ 。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⏰ 2019 年 03 月 02 日

「算法笔记」欧拉函数 (<https://blog.orzsiyuan.com/archives/Euler-Function/>)

✓ 欧拉函数是数论中的一个重要积性函数。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⏰ 2019 年 01 月 28 日

「算法笔记」莫比乌斯反演 (<https://blog.orzsiyuan.com/archives/Mobius-Inversion/>)

✓ 莫比乌斯反演是数论中的重要内容。对于一些函数, 如果很难直接求出它的值, 而容易求出其倍数和或约数和, 那么可以通过莫比乌斯反演求得原函数的值。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⏰ 2018 年 08 月 22 日



热门文章

(<https://blog.2019游记> (<https://blog.orzsiyuan.com/archives/ZJOI-2019/>)
2019) ⚒ 6051

(<https://blog.2019模板复习> (<https://blog.orzsiyuan.com/archives/hehezhou-AK-CSP-2019/>)
AK- ⚒ 2892

CSP-
2019) (<https://blog.算法笔记多项式模板> (<https://blog.orzsiyuan.com/archives/Polynomial-Template/>)
Template) ⚒ 1080

(<https://SDOI2017数字表格> (<https://SDOI2017-Number-Table/>)
2017- ⚒ 1028
Number-
Table/)

(<https://blog.orzsiyuan.com/archives/TJOI-2019-Sing-Dance-2019-Rap-and-Basketball/>)
 Sing- 843
 Dance-
 Rap-
 and-
 Basketball/)

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 文章数目	187
 评论数目	243
 运行天数	1年25天
 最后活动	4 个月前

标签云



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([第二类斯特林数](https://blog.orzsiyuan.com/tag/%E7%AC%AC%E4%BA%8C%E7%B1%BB%E6%96%AF%E7%89%B9%E6%) (<https://blog.orzsiyuan.com/tag/%E7%AC%AC%E4%BA%8C%E7%B1%BB%E6%96%AF%E7%89%B9%E6%>))

([二项式定理](https://blog.orzsiyuan.com/tag/%E4%BA%8C%E9%A1%B9%E5%BC%8F%E5%AE%9A%E7%90%86/) (<https://blog.orzsiyuan.com/tag/%E4%BA%8C%E9%A1%B9%E5%BC%8F%E5%AE%9A%E7%90%86/>))

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