

## 标签 欧拉函数 下的文章

🏠 首页 (<https://blog.orzsiyuan.com/>) / 欧拉函数

「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 594D」 REQ (<https://blog.orzsiyuan.com/archives/Codeforces-594D-REQ/>)

题目链接: Codeforces 594D (<https://codeforces.com/contest/594/problem/D/>)

今天的数学课上, 老师告诉 Vovochka 正整数的欧拉函数  $\varphi(n)$  是计算小于等于  $n$  且与  $n$  互质的正整数的函数, 1 和任意正整数互质所以  $\varphi(1) = 1$ 。

现在老师给了 Vovochka 一个数列  $a_1, a_2, \dots, a_n$ , 要求回答  $q$  个询问  $l_i, r_i$ , 计算  $\varphi\left(\prod_{i=l}^r a_i\right)$  的值, 答案对  $10^9 + 7$  取模。这个问题对二年级学生来说太难了, 所以你决定帮助 Vovochka。

数据范围:  $1 \leq n, q \leq 2 \times 10^5$ ,  $1 \leq a_i \leq 10^6$ 。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⚡ 2019 年 02 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



### 热门文章

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

(<https://blog.orzsiyuan.com/archives/hehezhou-AK-CSP-2019/>)  
AK- ⚡ 2892  
CSP-  
2019/) (<https://blog.orzsiyuan.com/archives/Polynomial-Template/>)  
Template ⚡ 1080

(<https://blog.orzsiyuan.com/archives/SDOI-2017-Number-Table/>)  
2017- ⚡ 1028

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

### 博客信息

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

[Codeforces \(<https://blog.orzsiyuan.com/tag/Codeforces/>\)](https://blog.orzsiyuan.com/tag/Codeforces/)[数据结构 \(<https://blog.orzsiyuan.com/tag/Data-Structure/>\)](https://blog.orzsiyuan.com/tag/Data-Structure/)[动态规划 \(<https://blog.orzsiyuan.com/tag/Dynamic-Programming/>\)](https://blog.orzsiyuan.com/tag/Dynamic-Programming/)[数论 \(<https://blog.orzsiyuan.com/tag/Number-Theory/>\)](https://blog.orzsiyuan.com/tag/Number-Theory/) [图论 \(<https://blog.orzsiyuan.com/tag/Graph-Theory/>\)](https://blog.orzsiyuan.com/tag/Graph-Theory/)[贪心 \(<https://blog.orzsiyuan.com/tag/Greedy/>\)](https://blog.orzsiyuan.com/tag/Greedy/) [多项式 \(<https://blog.orzsiyuan.com/tag/Polynomial/>\)](https://blog.orzsiyuan.com/tag/Polynomial/)[字符串 \(<https://blog.orzsiyuan.com/tag/%E5%AD%97%E7%AC%A6%E4%B8%B2/>\)](https://blog.orzsiyuan.com/tag/%E5%AD%97%E7%AC%A6%E4%B8%B2/)[LOJ \(<https://blog.orzsiyuan.com/tag/LOJ/>\)](https://blog.orzsiyuan.com/tag/LOJ/) [FFT NTT 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