

# 标签 通项公式 下的文章

🏠 首页 (<https://blog.orzsiyuan.com/>) / 通项公式

「TJOI / HEOI 2016」求和 (<https://blog.orzsiyuan.com/archives/TJOI-HEOI-2016-Sum/>)

题目链接: LOJ 2058 (<https://loj.ac/problem/2058>)

在 2016 年，佳媛姐姐刚刚学习了第二类斯特林数，非常开心。

现在他想计算这样一个函数的值：

$$f(n) = n \sum_{i=0}^n \sum_{j=0}^i S(i, j) \cdot 2^j \cdot j!$$

$S(i, j)$  表示第二类斯特林数，递推公式为:  $S(i, j) = j \cdot S(i - 1, j) + S(i - 1, j - 1)$ ,  $1 \leq j \leq i - 1$ 。

边界条件为:  $S(i, i) = 1 (i \geq 0)$ ,  $S(i, 0) = 0 (i \geq 1)$ 。

你能帮帮她吗？

数据范围:  $1 \leq n \leq 10^5$ 。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⏰ 2019 年 08 月 31 日

「算法笔记」生成函数求数列通项公式  
(<https://blog.orzsiyuan.com/archives/Sequence-of-General-Term-Formula/>)

✓ 利用生成函数，可以求解数列的通项公式。本文以「斐波那契数列」为例。

👤 Siyuan (<https://blog.orzsiyuan.com/author/1/>) ⏰ 2019 年 06 月 27 日



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(<https://blog.orzsiyuan.com/archives/hehezhou-AK-CSP-2019/>)

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

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Sing-  843

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## 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

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