

Kartu Sihir Lyney

Author: Tamam Fajar

Time Limit	1 s
Memory Limit	256 MB



Deskripsi Soal

Lyney adalah pesulap ternama di negara Fontaine. Pertunjukan sulapnya selalu meriah dan tidak pernah gagal. Hari ini, Lyney menunjukkan **kartu sihirnya**. Ia berdiri di atas panggung berkabut, dengan sorotan lampu biru kehijauan yang membuat jubah ungunya berkilau.

"Perhatikan baik-baik," katanya dengan senyum misterius, "karena malam ini, aku akan menjebak **energi sihir** di antara kartu-kartu ini!"

Ia mengangkat tangan, dan dari balik mantel muncul tujuh tumpukan kartu mengambang di udara, tersusun sejajar, masing-masing dengan tinggi yang berbeda.

Penonton pun terpukau.

"Aku butuh bantuan dari kalian semua," ujar Lyney, "Bantu aku menghitung berapa banyak energi sihir yang akan terperangkap **di antara tumpukan-tumpukan ini!**"

Input

Baris pertama adalah **N** dimana **N** menunjukkan banyak tumpukan kartu.

Baris kedua berisi **N** bilangan bulat yang dipisahkan oleh spasi: **X₁, X₂, ..., X_N**, di mana **X_i** menyatakan **tinggi tumpukan kartu ke-i**.

Output

Sebuah nilai yang menunjukkan berapa banyak energi sihir yang terperangkap di antara tumpukan kartu.

Constraints

$$1 \leq N \leq 10^5$$

$$1 \leq X \leq 10^4$$

Contoh Input 1

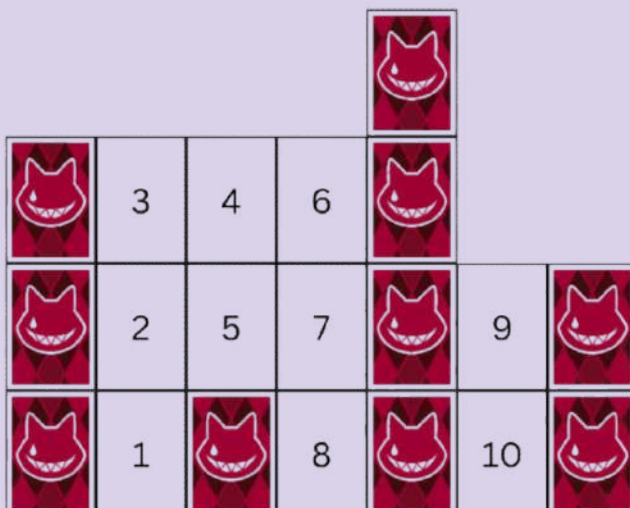
7
3 0 1 0 4 0 2

Contoh Output 1

10

Penjelasan Contoh 1

Lihat gambar dibawah:



Contoh Input 2

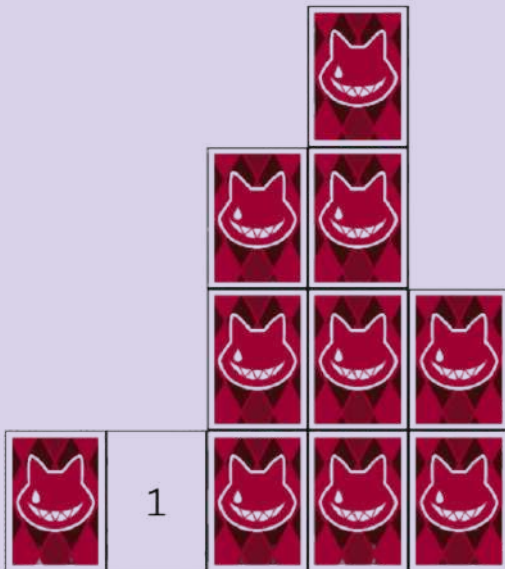
5 1 0 3 4 2

Contoh Output 2

1

Penjelasan Contoh 2

Lihat gambar dibawah:



Lyney's Magic Card

Author: Tamam Fajar

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Problem Description

Lyney is a renowned magician from the nation of **Fontaine**. His magic shows are always grand and never fail to captivate. Today, Lyney unveils his **enchanted cards**. He stands on a misty stage, bathed in bluish-green spotlights that make his violet cloak shimmer.

“Watch closely,” he says with a mysterious smile, “for tonight, I shall trap magical energy between these cards!”

He raises his hand, and from within his cloak, **seven stacks of floating cards** appear, aligned side by side, each with a different height. The audience gasps in awe.

“I need your help,” Lyney announces. “**How much magical energy will be trapped between these stacks?**”

Input

The **first line** contains an integer **N** which is the number of stacks.

The **second line** contains **N** space separated integers X_1, X_2, \dots, X_N , where X_i represents the **height of the i-th stack** of cards.

Output

A value that represents how much magical energy is trapped between the stacks of cards.

Constraints

$$1 \leq N \leq 10^5$$

$$1 \leq X \leq 10^4$$

Input Example 1

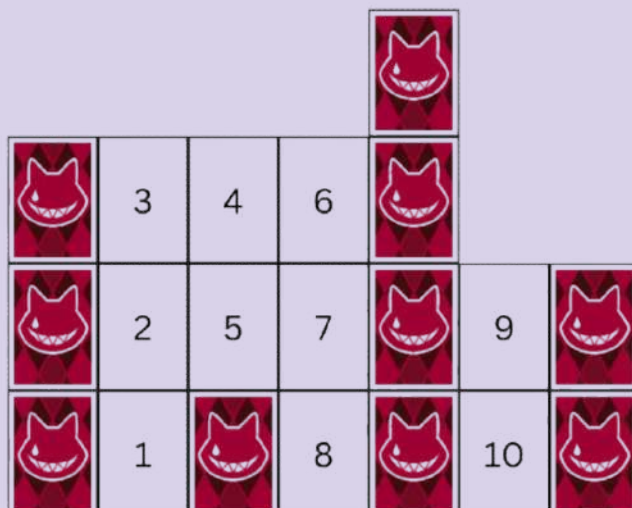
7
3 0 1 0 4 0 2

Output Example 1

10

Explanation 1

Look at the image below:



Input Example 2

5
1 0 3 4 2

Output Example 2

1

Explanation 2

Look at the image below:

