

# 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: **X<sub>1</sub>, X<sub>2</sub>, ..., X<sub>N</sub>**, di mana **X<sub>i</sub>** 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

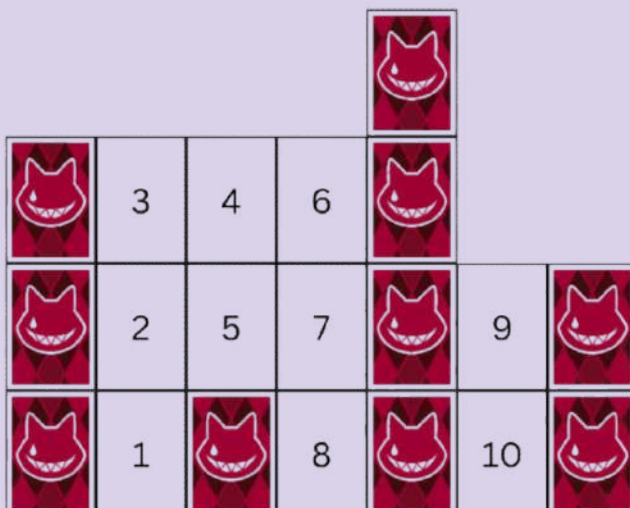
7  
3 0 1 0 4 0 2

## Contoh Output 1

10

## Penjelasan Contoh 1

Lihat gambar dibawah:



## Contoh Input 2

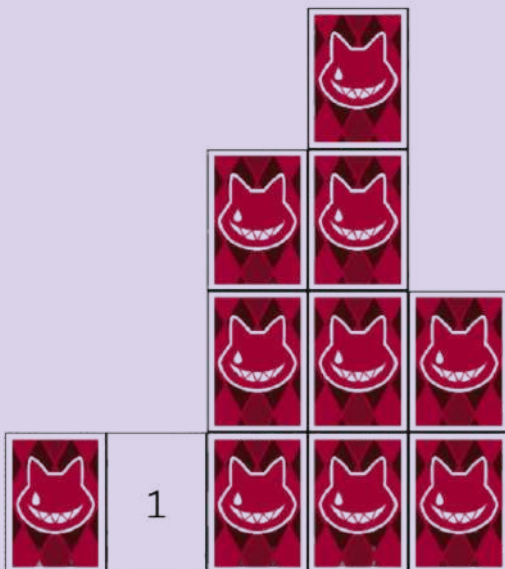
5 1 0 3 4 2
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## Contoh Output 2

1
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## Penjelasan Contoh 2

Lihat gambar dibawah:



# Lyney's Magic Card

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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

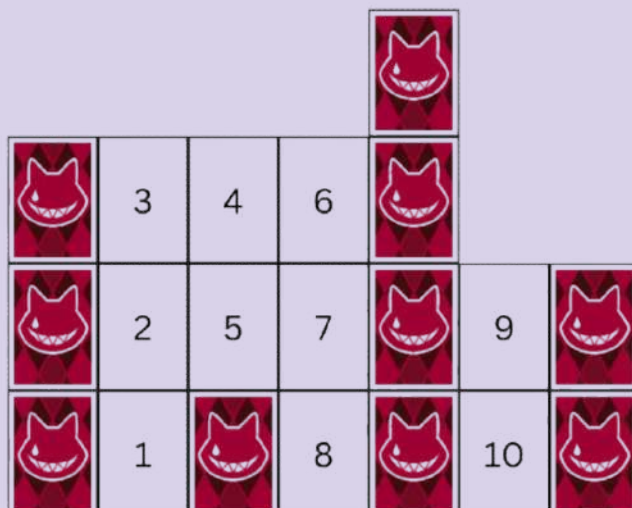
7  
3 0 1 0 4 0 2

## 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:

