

[Problem Title Here]

Problem ID: [Problem ID]
Contest ID: [Contest ID (If available)]
Difficulty: [Difficulty Level: e.g., Easy, Medium, Hard]
Tags: [Comma-separated tags: e.g., math, implementation, dp]
Authors: [Comma-separated names: e.g., Baz, Boss]

[Problem statement text goes here. You can use LaTeX math mode for variables, like N or x_i . Describe the task the user needs to solve.]

Input Format: [Describe the input format line by line.]

Output Format: [Describe the expected output format.]

Constraints:

- [Description of constraint 1] [e.g., $1 \leq N \leq 10^5$]
- [Description of constraint 2] [e.g., $0 \leq A_i \leq 10^9$]
- [Add more as needed] [Constraint details]

Sample Input 1:

[Paste Sample 1 Input Here]

Sample Output 1:

[Paste Sample 1 Output Here]

Sample Input 2:

[Paste Sample 2 Input Here]

Sample Output 2:

[Paste Sample 2 Output Here]

Notes: [Add any hints, clarifications, or extra information here.]

Explanation:

- **Sample 1:** [Explain why the input for Sample 1 produces the given output.]
- **Sample 2:** [Explain why the input for Sample 2 produces the given output.]