ICPC Assiut University Community

Ramadan Kareem



HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

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time limit per test: 1 s.
memory limit per test: 256 MB
input: standard input
output: standard output

During Ramadan, Our Assiut charity organization is distributing food packages to N needy families. Each family has varying sizes and monthly incomes. The organization aims to distribute the food packages in such a way that families with lower incomes and more members receive priority. However, they also want to ensure that larger families with slightly higher incomes are not overlooked.

Priority Criteria:

Families with lower incomes and more members (lower income per person) receive higher priority, In case of equal priority:

- The family with a higher number of members gets priority.
- If there's still a tie, the family with the lower index gets priority.

Write a program to assist the charity organization in distributing food packages efficiently.

Input

The first line of input contains a single integer N ($1 \le N \le 10^4$) representing the number of families.

The next N lines contain two integers A and B ($1 \le A \le 20, 1 \le B \le 10^6$) separated by a space. A represents the number of family members, and B represents the monthly income of each family.

Output

A single line containing N space-separated integers representing the indices of the families in one-based indexing.

Example

input	Сору
5	
3 3700	
4 6000	
5 2600	
6 20000	
2 4200	
output	Сору
3 1 2 5 4	

Note

In the First Sample, representing the per-person income for each family:

Family 1: 1233.33

Family 2: 1500

Family 3: 520

Family 4: 3333.33

Family 5: 2400

When arranging these figures in ascending order, from the lowest to the highest:

The sorted sequence would be: Family 3, Family 1, Family 2, Family 5, and Family 4.

Private Participant





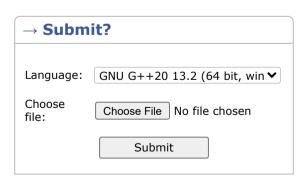
Ramadan Marathon Newcomers 2020

Ramadan Marathon Newcomers 2019

Ramadan Marathon Juniors 2019

Ramadan Kareem - Marathon 2017





→ Last submissions		
Submission	Time	Verdict
<u>253141752</u>	Mar/25/2024 01:04	Accepted
253141683	Mar/25/2024 01:02	Wrong answer on test 2