

TCS Digital Coding Question



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Write a program to find the smallest integer value 'b' for the given value of 'a'.

If we multiply the digits of 'b', we should get the exact value of 'a'.
Result 'b' must contain more than one digit.

Constraints:

$1 \leq a \leq 10000$

Examples:

Input: 10

Output: 25

Explanation: $2 \times 5 = 10$. Hence 25 is the smallest value for 10.

Input: 56

Output: 78

Explanation: $7 \times 8 = 56$

Input: 150

Output: 556

Explanation: $5 \times 5 \times 6 = 150$

Input: 13

Output: Not Possible

Instructions:

- Input must be single integer value
- Print "Not Possible" if result not found

Logic Explanation:



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A traveler wants to start his journey from Pune to Ahmedabad. Before starting the journey he/she uses GPS system to find all the paths to reach from source to destination. He/she will use smallest or second smallest path to start the journey. Write a logic to find the smallest and the second smallest distance from the list of all distances.

Input:

1. The first input contains N, total number of paths from source to destination.
2. The second input contains N sorted integers separated by newline A1,A2,...An; representing the distance of all paths.

Output:

Output contains two numbers separated by single space character.

If all paths are equal, then the system should generate a message as "Equal".

If N is less than 2, then the system should generate a message as "Invalid input".

Constraints:

$2 < N \leq 10$

$1 \leq A[I] \leq 1000$

Test cases:

Input

4

100

400

300

250

Output

100 250

Explanation: Out of given 4 possible paths only 100 and 250 are the smallest distances to reach the destination.

Input:

1

200

Output:

Invalid Input

Input:

3

100

100

100

Output:

Equal

Logic Explanation:



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A coding competition was conducted in company with e employees. Data of employees who participated and who did not participate in the competition is available. There were the problems in the coding competition. Data as mentioned below is available.

The number of employees who have solved only the first, only the second and only the third are equal.

P_1 employees who solved the first, second problem.

P_2 employees who solved the second, third problem.

P_3 employees who solved the third, first problem.

Q employees who solved all the three problems.

R employees who did not participate in competition.

Answer the following questions based on the data.

1. How many employees have solved the first problem?
2. How many employees have solved exactly one of the 3 problems?

Constraints:

$$0 \leq p_1, p_2, p_3 < 10^5$$

$$p_1, p_2, p_3 \leq e$$

$$R, Q \leq e$$

$$Q < p_1, p_2, p_3$$

Example Test Case:

Input:

30
26
28
14
345
43

Output:

126
246

Logic Explanation:



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