



00 Hr 32 Min
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Minimum Bid

+ Problem Description

Consider people calling out bids in different number bases at an auction. Find the minimum bid assuming the following:

1. The bid numbers are in bases that make their respective values minimum.
2. There is only one minimum value among all the bids.

+ Constraints

1. $N \leq 10$
2. Maximum base = 36
3. Symbols used for digits: Base 2: 0, 1
Base 3: 0, 1, 2
...
Base 11: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A
...
Base 36: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
4. Face values for symbols: Symbol \Rightarrow Value 0 \Rightarrow 0
1 \Rightarrow 1
2 \Rightarrow 2
...
9 \Rightarrow 9
A \Rightarrow 10
B \Rightarrow 11
...
Z \Rightarrow 35

+ Input Format

N different numbers in various bases, with numbers delimited by space

+ Output

The value in base 10 of the minimum bid.

+ Test Case

+ Explanation

Example 1

Input

11 12

Output

3

Explanation

The value of number represented by 11 is least in base 2 and that least value in base 10 is 3. The least value of the representation 12 is in base 3 and is equal to 5. Since $3 < 5$, 3 is the lowest bid and is the output.

Example 2

Input

1Z A L0 17

Output

10

Explanation

The least values are:

1Z in base 36: $1 \times 36 + 35 = 71$

A in base 11: 10

L0 in base 22: $21 \times 22 + 0 = 462$

17 in base 8: $1 \times 8 + 7 = 15$

Hence the least bid is 10.

Upload Solution [Question : C]

☐ I, **YASHRAJ DIGHE** confirm that the answer submitted is my own.

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