

B. Anton and Digits

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

Recently Anton found a box with digits in his room. There are k_2 digits 2, k_3 digits 3, k_5 digits 5 and k_6 digits 6.

Anton's favorite integers are 32 and 256. He decided to compose this integers from digits he has. He wants to make the sum of these integers as large as possible. Help him solve this task!

Each digit can be used no more than once, i.e. the composed integers should contain no more than k_2 digits 2, k_3 digits 3 and so on. Of course, unused digits are not counted in the sum.

Input

The only line of the input contains four integers k_2 , k_3 , k_5 and k_6 — the number of digits 2, 3, 5 and 6 respectively ($0 \leq k_2, k_3, k_5, k_6 \leq 5 \cdot 10^6$).

Output

Print one integer — maximum possible sum of Anton's favorite integers that can be composed using digits from the box.

Examples

input
5 1 3 4
output
800

input
1 1 1 1
output
256

Note

In the first sample, there are five digits 2, one digit 3, three digits 5 and four digits 6. Anton can compose three integers 256 and one integer 32 to achieve the value $256 + 256 + 256 + 32 = 800$. Note, that there is one unused integer 2 and one unused integer 6. They are not counted in the answer.

In the second sample, the optimal answer is to create one integer 256, thus the answer is 256.

Codeforces Round #379 (Div. 2)

Finished

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