

## 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

Copy

5 1 3 4

output

Copy

800

input

Copy

1 1 1 1

output

Copy

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 on integer 256, thus the answer is 256.

### Codeforces Round #379 (Div. 2)

**Finished**

### → Virtual participation

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Start virtual contest

### → Problem tags

brute force

greedy

implementation

math

\*800

No tag edit access

### → Contest materials

- Tutorial (en)

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