Integers Come In All Sizes ★

52/115 challenges solved

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Integers in Python can be as big as the bytes in your machine's memory. There is no limit in size as there is: $2^{31} - 1$ (c++ int) or $2^{63} - 1$ (C++ long long int).

As we know, the result of a^b grows really fast with increasing b.

Let's do some calculations on very large integers.

Task

Read four numbers, a, b, c, and d, and print the result of $a^b + c^d$.

Input Format

Integers a, b, c, and d are given on four separate lines, respectively.

Constraints

$1 \leq a \leq 1000$
$1 \leq b \leq 1000$
$1 \leq c \leq 1000$
$1 \leq d \leq 1000$

Output Format

Print the result of $a^b + c^d$ on one line.

Sample Input

```
9
29
7
27
```

Sample Output

```
4710194409608608369201743232
```

Note: This result is bigger than $2^{63} - 1$. Hence, it won't fit in the long long int of C++ or a 64-bit integer.

Change Theme Python 3

```
if __name__ == '__main__':
    a = int(input())
    b = int(input())
    c = int(input())
    d = int(input())

    result = a**b + c**d
```

```
8
9       print(result)
10
```

Line: 10 Col: 1

Upload Code as File | Test against custom input | Run Code | Submit Code

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52/115 challenges solved.

45%

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Test case 0

Test case 1

Compiler Message

Success

Input (stdin) Download

```
1 9
2 29
3 7
4 27
```

Expected Output Download

```
1 471019440960860836920174323 2
```