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What is the maximum possible value of an integer in Python?

Consider below Python program.

Run on IDE

Output:

In Python, value of an integer is not restricted by the number of bits and can expand to the limit of the available memory (Sources: this and this). Thus we never need any special arrangement for storing large numbers (Imagine doing above arithmetic in C/C++).

As a side note, in Python 3, there is only one type "int" for all type of integers. In Python 2.7. there are two separate types "int" (which is 32 bit) and "long int" that is same as "int" of Python 3.x, i.e., can store arbitrarily large numbers.

Run on IDE

Output in Python 2.7:



```
<type 'int'>
<type 'long'>
```

Output in Python 3:

```
<type 'int'>
<type 'int'>
```

We may want to try more interesting programs like below :

```
# Printing 100 raise to power 100
print(100**100)
```

Run on IDE

This article is contributed by **Abhay Rathi**. Please write comments if you find anything incorrect, or you want to share more information about the topic discussed above



Article Tags: (Python) (large-numbers)

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