

Task two

### **int for real numbers**

the number can be positive or negative numbers like 4444,-4444

the maximum of int type in python?

Python 3

In Python 3, this question doesn't apply. The plain int type is unbounded.

Python 2

In Python 2, the maximum value for plain int values is available as `sys.maxint`:

Python seamlessly switches from plain to long integers once you exceed this value. So most of the time, you won't need to know it.

### **in 64 bit**

$(2^{63})-1$

from  $-2^{(n-1)}$

to  $2^{(n-1)} - 1$

### **in 32 bit**

$2^{31} - 1$

from  $-2^{(n-1)}$

to  $2^{(n-1)} - 1$

<https://stackoverflow.com/questions/7604966/maximum-and-minimum-values-for-ints>

### **float**

$$-1.7976931348623157\text{e}+308 \leq f \leq 1.7976931348623157\text{e}+308$$