

The following is some code that demonstrates some of the concepts presented above.

```
>>> import sys
>>> sys.getsizeof(1)
28
>>> x = 2**30-1
>>> x
1073741823
>>> sys.getsizeof(x)
28
>>> x = x + 1
>>> x
1073741824
>>> sys.getsizeof(x)
32
>>> 2**100
1267650600228229401496703205376
>>> 2**1000
10715086071862673209484250490600018105614048117055336074437503
88370351051124936122493198378815695858127594672917553146825187
14528569231404359845775746985748039345677748242309854210746050
62371141877954182153046474983581941267398767559165543946077062
914571196477686542167660429831652624386837205668069376
```