

- (1) Dict;
- (2) List;
- (3) Tuple;
- (4) Numpy;
- (5) Pandas;

```
In [1]: import sys
import numpy as np
import pandas as pd
n_list = [
    int(1e1),
    int(1e3),
    int(1e6),
]
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In [2]: for n in n_list:
        try:
            # Dict
            ob = {}
            for i in range(n):
                ob[str(i)] = i

            print("%d To %d byte" % (n, sys.getsizeof(ob)))
            del ob
        except Exception as e:
            print(e)

        try:
            # List
            ob = []
            for i in range(n):
                ob.append(i)

            print("%d To %d byte" % (n, sys.getsizeof(ob)))
            del ob
        except Exception as e:
            print(e)

        try:
            # Tuple
            ob = []
            for i in range(n):
                ob.append(i)
            ob = tuple(ob)

            print("%d To %d byte" % (n, sys.getsizeof(ob)))
            del ob
        except Exception as e:
            print(e)

        try:
            # Numpy
            ob = []
            for i in range(n):
                ob.append(i)
            ob = np.array(ob)

            print("%d To %d byte" % (n, sys.getsizeof(ob)))
            del ob
        except Exception as e:
            print(e)

        try:
            # Pandas
            ob = []
            for i in range(n):
                ob.append(i)
            ob = pd.DataFrame(ob)

            print("%d To %d byte" % (n, sys.getsizeof(ob)))
            del ob
        except Exception as e:
            print(e)

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10 To 368 byte
10 To 192 byte
10 To 128 byte
10 To 176 byte
10 To 184 byte
1000 To 36968 byte
1000 To 9024 byte
1000 To 8048 byte
1000 To 8096 byte
1000 To 8104 byte
1000000 To 41943144 byte
1000000 To 8697464 byte
1000000 To 8000048 byte
1000000 To 8000096 byte
1000000 To 8000104 byte

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