

DSML Intermediate : Time Complexity and Sorting I

[- , -]

Recap

```
In [ ]: [ i+j+k for k in ["I"] for j in ["am"] for i in ["weird"] ]
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

for i in weird

```
In [ ]:
```

for i in [0, 1, 99]

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```



```
random[1.0] = "Python"
random[1] = "C++"
random[True] = "JAVA"
random[1+0j] = "TypeScript"

print(f"{random[1.1]} and {random[True]}")
```

In [3]:

```
random = {}
random[1.1] = "JavaScript"
print(random)
```

```
{1.1: 'JavaScript'}
```

In [4]:

```
random[1.0] = "Python"
print(random)
```

```
{1.1: 'JavaScript', 1.0: 'Python'}
```

In [5]:

```
random[1] = "C++"
print(random)
```

```
{1.1: 'JavaScript', 1.0: 'C++'}
```

1, 1.0
↳ same

In []:

In []:



File Edit View Insert Cell Kernel Widgets Help Trusted Python 3 (ipykernel) ○

```
{1.1: 'JavaScript'}
```

```
In [4]: random[1.0] = "Python"
print(random)
```

```
{1.1: 'JavaScript', 1.0: 'Python'}
```

```
In [5]: random[1] = "C++"
print(random)
```

```
{1.1: 'JavaScript', 1.0: 'C++'}
```

```
In [ ]:
```

```
In [6]: x = {1: "harshita", 1.0: "Surya"}
print(x)
```

```
{1: 'Surya'}
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

And 1.0
are same

```
In [4]: random[1.0] = "Python"
print(random)

{1.1: 'JavaScript', 1.0: 'Python'}
```

```
In [5]: random[1] = "C++"
print(random)

{1.1: 'JavaScript', 1.0: 'C++'}
```

```
In [7]: random[True] = "JAVA"
print(random)

{1.1: 'JavaScript', 1.0: 'JAVA'}
```

```
In [ ]: random[1+0j] = "TypeScript"
```

```
In [9]: 1+0j
```

```
Out[9]: (1+0j)
```

```
In [10]: type(1+0j)
```

```
Out[10]: complex
```

$5 + 3i$ $\sqrt{-1}$

$5 + 3j$

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Recap

```
In [1]: [ i+j+k for k in ["I"] for j in ["am"] for i in ["weird"] ]
```

```
Out[1]: ['weirdamI']
```

```
In [2]: for i in ["weird"]:
        for j in ["am"]:
            for k in ["I"]:
                print(i+j+k)
```

weirdamI

```
In [12]: random = {}
random[1.1] = "JavaScript"
random[1.0] = "Python"
random[1] = "C++"
random[True] = "Java"
```