

선생님의 거짓말!!!

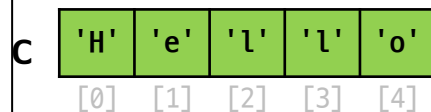
a = 1



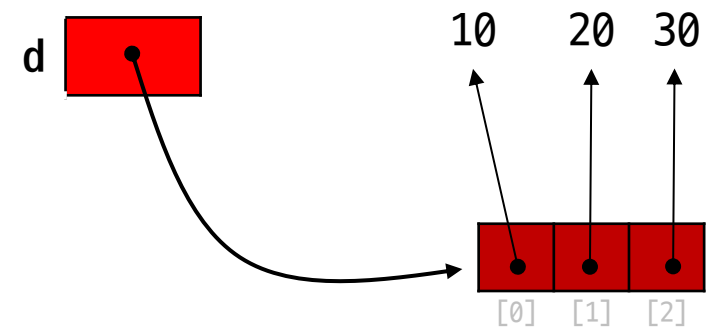
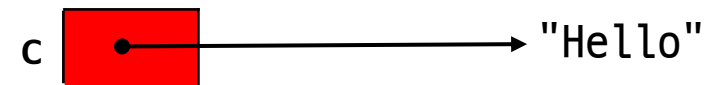
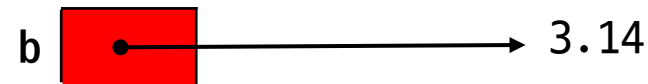
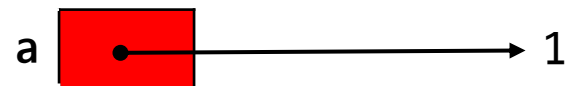
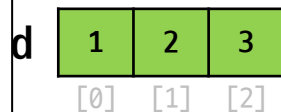
b = 3.14



c = "Hello"



d = [10, 20, 30]



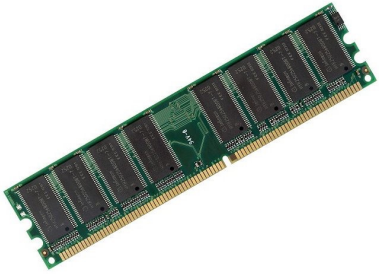
변수는 stack에 실제 객체는 heap에 저장

a = 1

b = 3.14

c = "Hello"

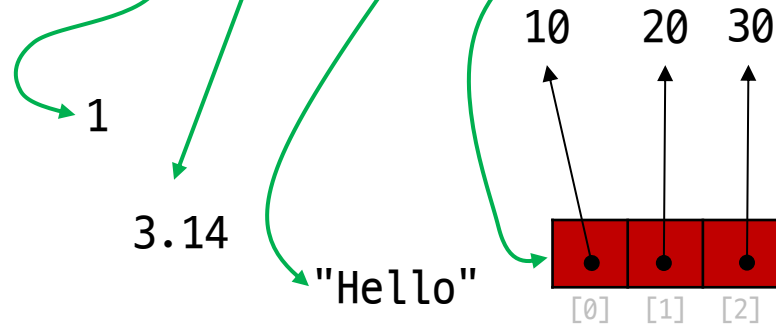
d = [10, 20, 30]



stack



heap



data

code(or text)

변수는 stack에 실제 객체는 heap에 저장

a = 1

b = 1

c = 1

d = 3.14

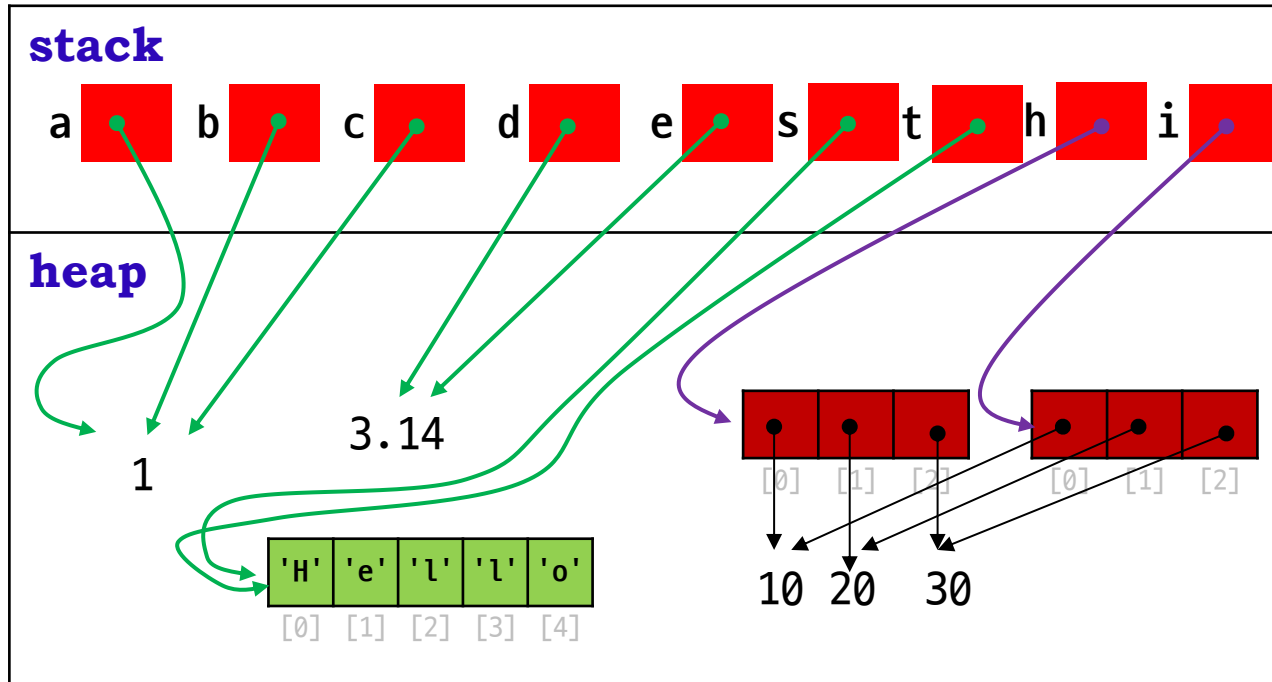
e = 3.14

s = "Hello"

t = "Hello"

h = [10, 20, 30]

i = [10, 20, 30]



immutable 한 객체 : int, float, str 등

이 객체들은 같은 값일 경우 객체 1개만 생성하여 같은 주소값(ID)를 사용

mutable 한 객체 : list, dict, set

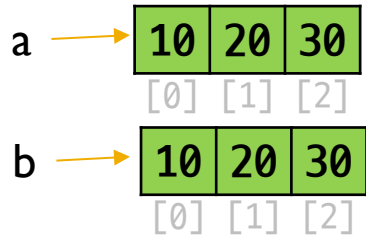
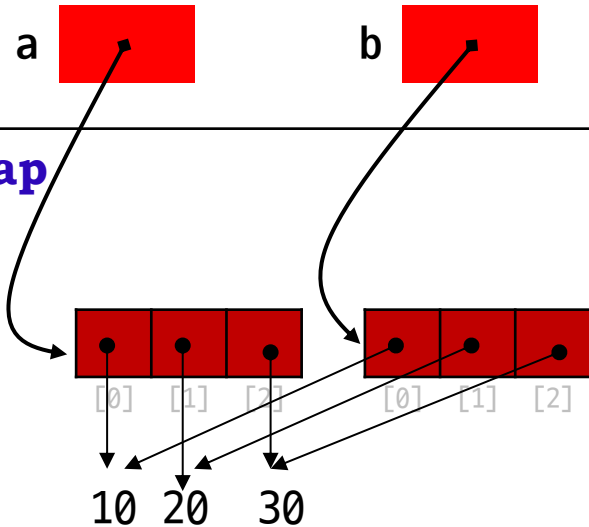
이 객체들은 같은 값일 경우에도 각각의 객체 생성

mutable한 리스트

```
a = [10, 20, 30]  
b = [10, 20, 30]
```

stack

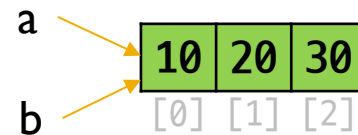
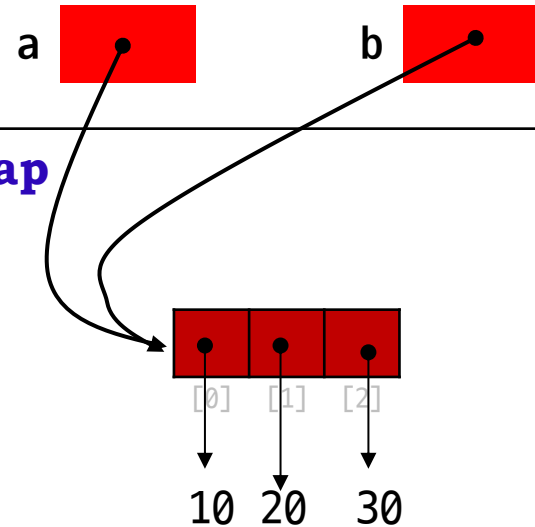
heap



```
a = [10, 20, 30]  
b = a
```

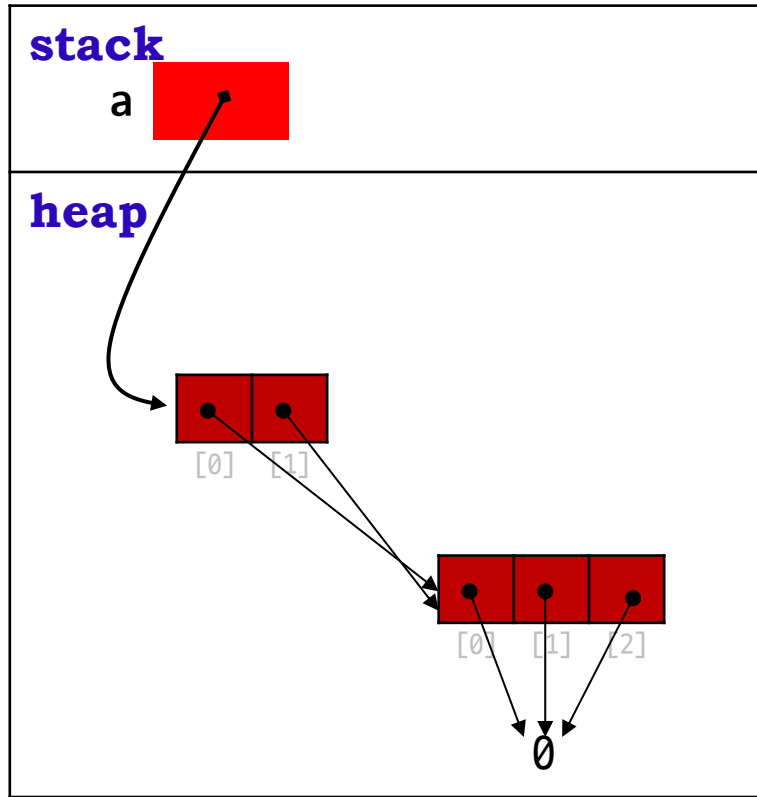
stack

heap



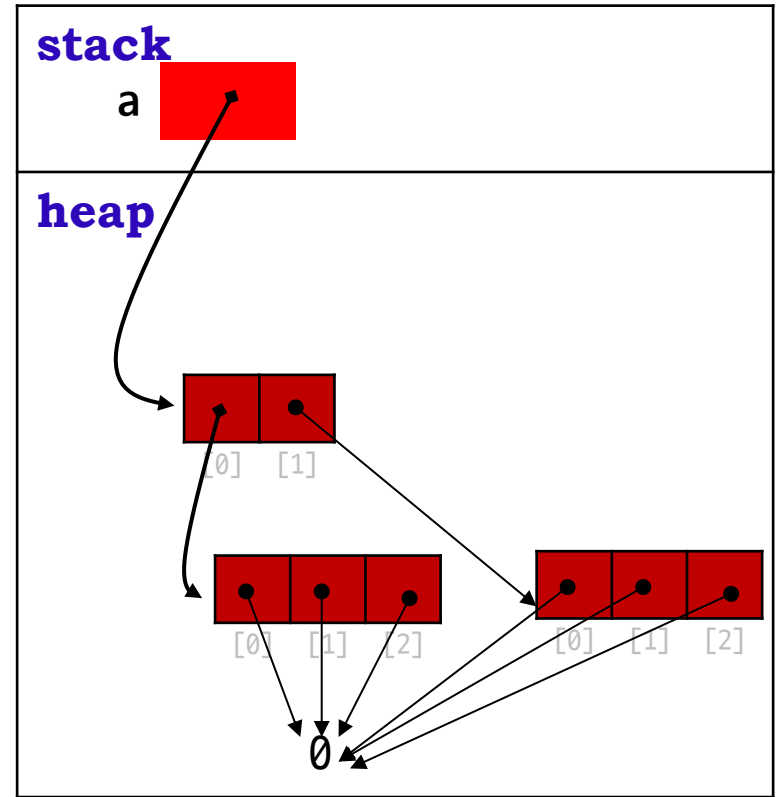
2차원 리스트

```
a = [[0] * 3] * 2
```



0행과 1행이 같은 공간(리스트)을 참조

```
a = [[0 for j in range(3)] for i in range(2)]
```



0행과 1행이 다른 공간(리스트)을 참조