





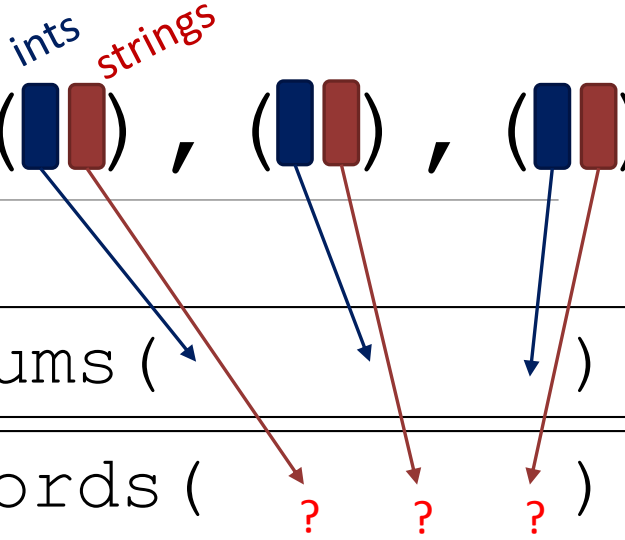



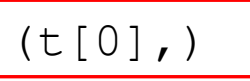
# MANIPULATING TUPLES

aTuple: ( (   ) , (   ) , (   ) )

*ints* *strings*



- can **iterate** over tuples

```
def get_data(aTuple):  
    nums = ()  
    words = ()  
    for t in aTuple:  
        nums = nums + ()  
        if t[1] not in words:  
            words = words + (t[1],)  
    min_n = min(nums)  
    max_n = max(nums)  
    unique_words = len(words)  
    return (min_n, max_n, unique_words)
```

*empty tuple*

*singleton tuple*

nums (

)

words ( ? ? ? )

if not already in words  
i.e. unique strings from aTuple