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Data structures are building blocks or raw material for any software programs

One can't become a good programmer without sound understanding of data structures





Store apple's stock price for 5 days and answer,

1. What was the price on day 1
2. What was the price on day 3





Store apple's stock price for 5 days and answer,

1. What was the price on day 1
2. What was the price on day 3

```
stock_price = [298,305,320,301,292]
```

```
stock_price[0] ← Stock price on day 1
```

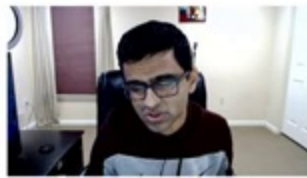
```
stock_price[2] ← Stock price on day 3
```

Store apple's stock price from march 4 to march 7 and answer,

1. What was the price on march 7
2. What was the price on march 3

```
stock_price = {  
    'march 4': 298,  
    'march 5': 305,  
    'march 6': 320,  
    'march 7': 301,  
}
```

```
stock_price['march 7'] ← march 7 price  
stock_price['march 3'] ← march 3 price
```




```
stock_price = [298,305,320,301,292]
```

```
stock_price = {  
    'march 4': 298,  
    'march 5': 305,  
    'march 6': 320,  
    'march 7': 301,  
}
```

298	305	320	301	292
-----	-----	-----	-----	-----

Array or List

march 4

march 5

march 6

march 7

Hash
Function

320

298

305

301

Hash Table



Data Structure

Python

Java

C++

Array

list

Native array

ArrayList

Native array

std::vector

Hash Table

dictionary

HashMap

LinkedHashMap

std::map

Linked List

Not available

LinkedList

std::list





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