```
nums = Series([7,8,9], index=[-1,0,1])
x = Series({"A":1, "B":2, "C":3})
y = Series({"A":2, "C":12, "D":4})
```

## **Expression**

## Result(s)



nums[0]	
<pre>nums.at[0], nums.iat[0]</pre>	
<pre>nums.loc[-1], nums.iloc[-1]</pre>	
x / y	

## Expression Result(s)

s[-1]	
s[-2:]	
s + s	
letters[0]	
s + letters	
s[1:] + s[:-1]	



v = Series([-1, 1, 200, 191, 4])

#### Expression Result(s)

	v < 0	
	v * v == 1	
	v[v > 100]	
	v[v % 2 == 0]	
	v[(v>0) & (v<100)]	



Code:	storms.csv:
<pre>path = "storms.csv"</pre>	name,year,type,speed,place
tab = pd.read_csv(path)	alice,2016,tornado,100,o
	bob,2016,hurricane,200,p
<pre>df = DataFrame({</pre>	cindy,2017,tornado,150,o
"code": ["o","p","a"],	dan,2018,tornado,300,o
"where": ["other", "Pacific", "Atlantic"]	eve,2018,hurricane,250,a
})	

Result(s)

# what are b, code, nms?

# type(df.code), type(df.where) tab.year.mean() tab.year == 2018 tab.name[tab.year == 2018]

df["where"] == "Atlantic"

b = df["where"] == "other"

nms = tab.name[tab.place==code]

code = df.code[b].item()

**Expression** 

df["code"]

df.code

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"where": ["other", "Pacific", "Atlantic"]	eve,2018,hurricane,250,a
})	



# Expression Result(s)

<del>-</del>	
tab.loc[0]	
<pre>tab.at[4, "type"]</pre>	
<pre>df.at[0,"where"] = "mainland" place = df["where"][0]</pre>	# what is place?
<pre>tab.loc[:, "speed"] += 1 col = tab.speed</pre>	# what is col?