```
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})
```

1

Expression	Result(s)
`nums[0]`	
`nums.at[0], nums.iat[0]`	
`nums.loc[-1], nums.iloc[-1]`	
`x / y`	

```
s = Series(["A", "B", "C", "D"])
letters = Series(["x", "y", "z"], index=[1, 0, 3])
```

②

Expression	Result(s)
`s[-1]`	
`s[-2:]`	
`s + s`	
`letters[0]`	
`s + letters`	
`s[1:] + s[:-1]`	

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

3

Expression	Result(s)
`v < 0`	
`v * v == 1`	
`v[v > 100]`	
`v[v % 2 == 0]`	
`v[(v>0) & (v<100)]`	

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

4

Expression	Result(s)
df["code"]	
df.code	
type(df.code), type(df.where)	
tab.year.mean()	
tab.year == 2018	
tab.name[tab.year == 2018]	
df["where"] == "Atlantic"	
b = df["where"] == "other" code = df.code[b].item() nms = tab.name[tab.place==code]	# what are b, code, nms?

Code:	storms.csv:

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

5

Expression	Result(s)
`tab.loc[0]`	
`tab.at[4, "type"]`	
`df.at[0,"where"] = "mainland"` `place = df["where"][0]`	# what is place?
`tab.loc[:, "speed"] += 1` `col = tab.speed`	# what is col?