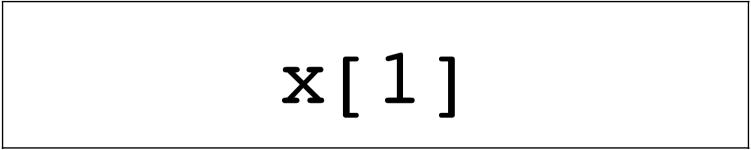
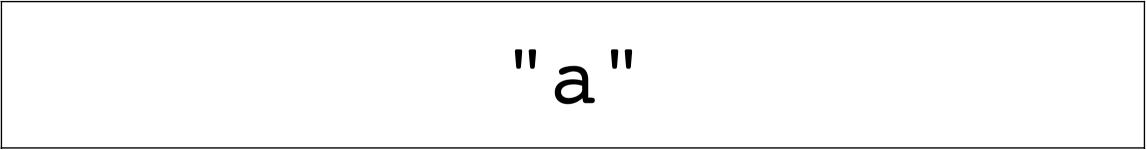
Indexing Vectors

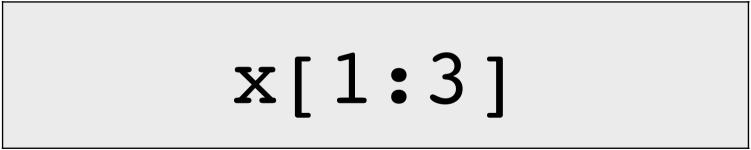
```
x <- c("a", "b", "c", "d", "e")
```



x[1]	

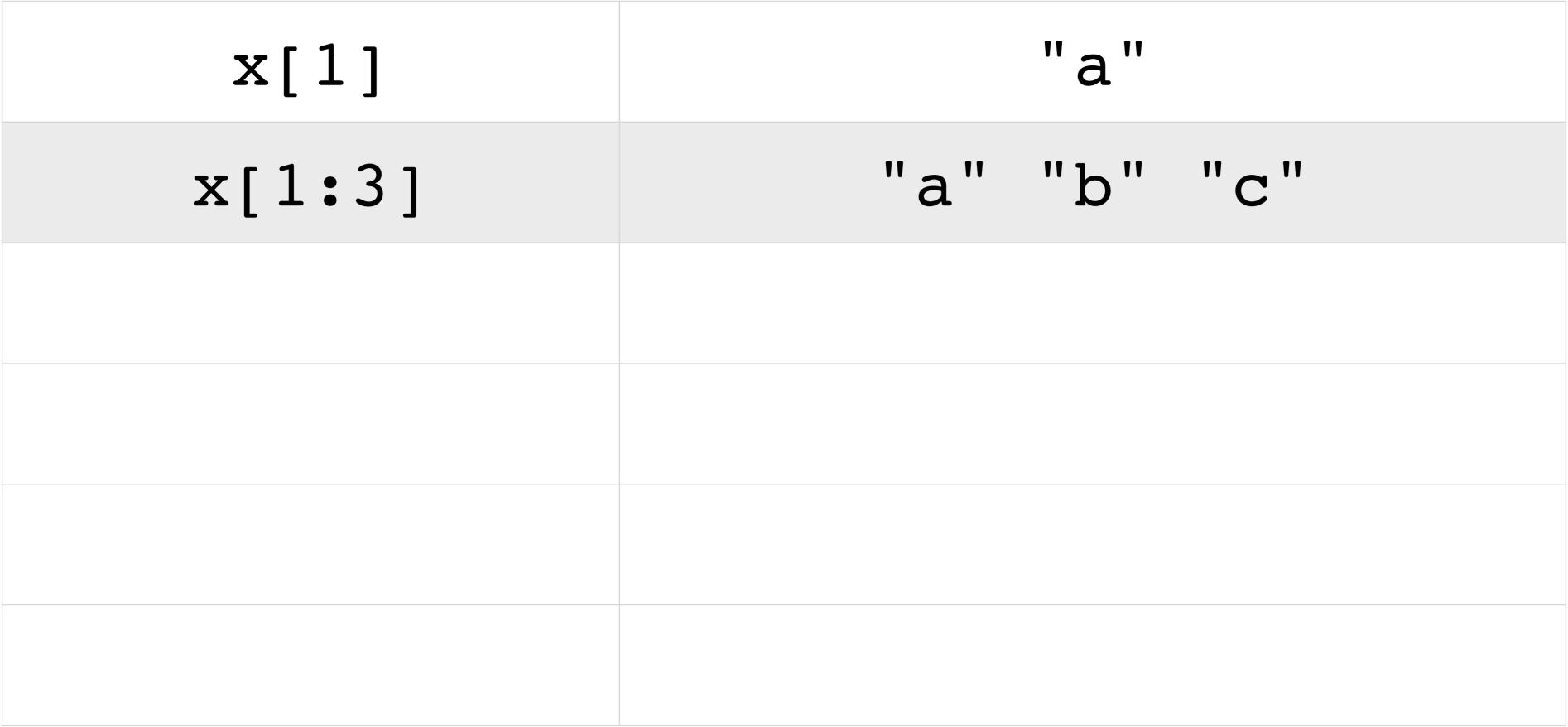


x[1]	"a"

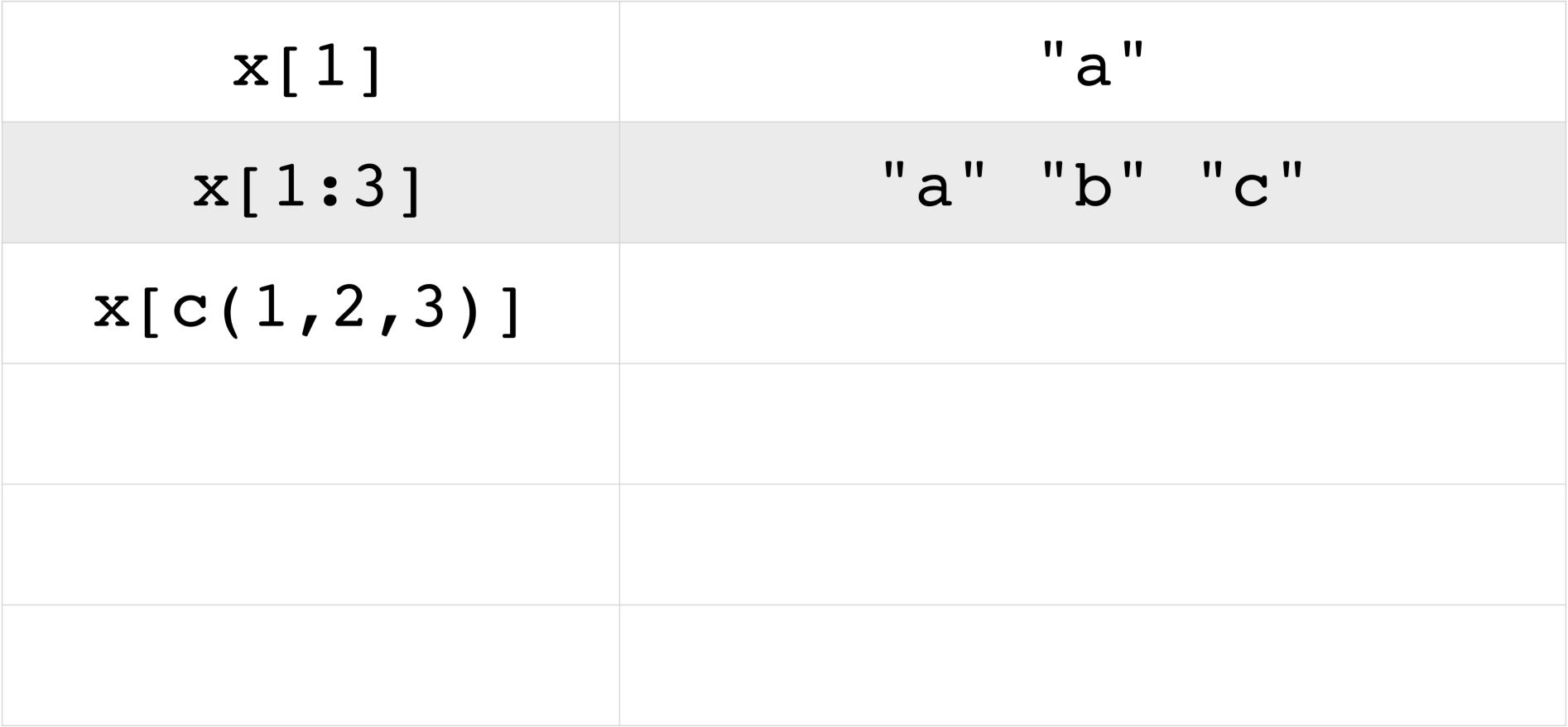


x[1]	"a"
x[1:3]	

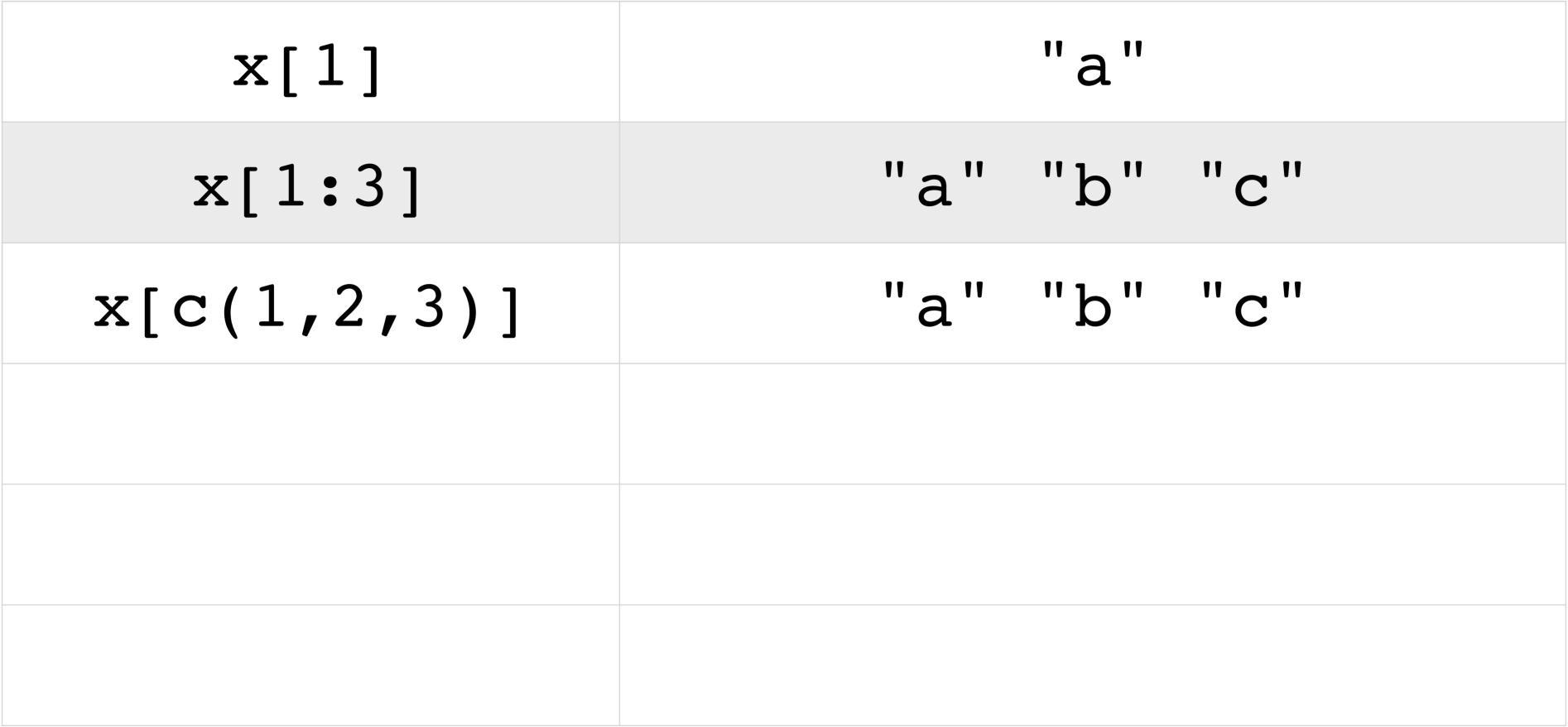
## "a" "b" "c"



x[c(1,2,3)]



## "a" "b" "c"



x[-1]

x[1]	"a"
x[1:3]	"a" "b" "c"
x[c(1,2,3)]	"a" "b" "c"
x[-1]	

"b" "c" "d" "e"

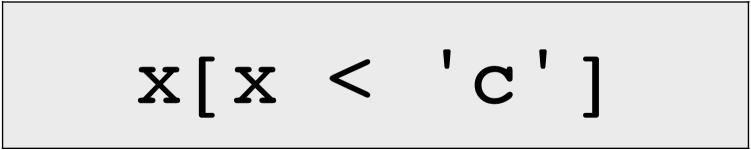
x[1]	"a"
x[1:3]	"a" "b" "c"
x[c(1,2,3)]	"a" "b" "c"
x[-1]	"b" "c" "d" "e"

x[c(5,1)]

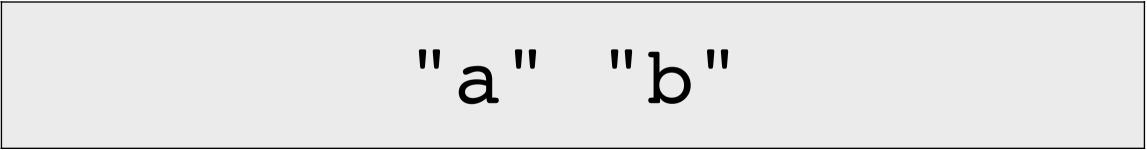
x[1]	"a"
x[1:3]	"a" "b" "c"
x[c(1,2,3)]	"a" "b" "c"
x[-1]	"b" "c" "d" "e"
x[c(5,1)]	

"e" "a"

x[1]	"a"
x[1:3]	"a" "b" "c"
x[c(1,2,3)]	"a" "b" "c"
x[-1]	"b" "c" "d" "e"
x[c(5,1)]	"e" "a"



x[1]	"a"
x[1:3]	"a" "b" "c"
x[c(1,2,3)]	"a" "b" "c"
x[-1]	"b" "c" "d" "e"
x[c(5,1)]	"e" "a"
x[x < 'c']	



## Indexing Vectors

x <- c("a", "b", "c", "d", "e")

```
"a"
   x[1]
                     "a" "b" "c"
  x[1:3]
                     "a" "b" "c"
x[c(1,2,3)]
                   "b" "c" "d" "e"
   x[-1]
 x[c(5,1)]
x[x < 'c']
                        "a" "b"
```

## Indexing Vectors

```
x <- c("a", "b", "c")
names(x) <- c("first", "second", "third")
```