

Forum:[Hack Forums](#)

Thread: [How to count the number of items between 2 list items](#)

Dyst0pia - September 6, 2015, 2:00 pm

Hi guys,

I have a list with 6 items in it. I need to output how many items there are between 2 of the list items the users asks for.

How can I do this?

So for example this is my code:

```
Code bus_stops= ['New York', 'Los Angeles', 'New Jersey ', 'Boston', 'Miami', 'Mexico']
```

```
start_station = input("What is your start destination")
end_station = input("What is your end destination")
```

```
totalstations = #STUCK HERE
```

I need to calculate how many bus stops there are between the user submitted start and end stations in the bus_stop list.

I've read that this is possible with the numPY library but I have't found a way to do it yet.

cobaltscraper - September 6, 2015, 2:09 pm

```
Code bus_stops= ['New York', 'Los Angeles', 'New Jersey', 'Boston', 'Miami', 'Mexico']
```

```
start_station = input("What is your start destination")
end_station = input("What is your end destination")
```

```
start_pos = 0
end_pos = 0
```

```
for i in range(len(bus_stops)):
    if start_station == bus_stops[i]:
        start_pos = i + 1
        break
```

```
for i in range(len(bus_stops)):
    if end_station == bus_stops[i]:
        end_pos = i
        break
```

```
totalstations = end_pos - start_pos
print totalstations
```

c x y k - September 6, 2015, 2:17 pm

Loop until you have position of x, same with y.

$y - x = d$

Pretty self explanatory.

Dyst0pia - September 6, 2015, 2:59 pm

(Sep 6, 2015 02:09 PM)cobaltscraper Wrote: [\[CITE\]](#) Code bus_stops= ['New York', 'Los Angeles', 'New Jersey', 'Boston', 'Miami', 'Mexico']

```
start_station = input("What is your start destination")
end_station = input("What is your end destination")
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```
start_pos = 0
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```
for i in range(len(bus_stops)):
    if start_station == bus_stops[i]:
        start_pos = i + 1
        break
```

```
for i in range(len(bus_stops)):
    if end_station == bus_stops[i]:
        end_pos = i
        break
```

```
totalstations = end_pos - start_pos
print totalstations
```

Thank you! that worked perfectly, I completely forgot about looping ?

SIM-1866423 - September 6, 2015, 3:46 pm

PHP Code

```
<?php
bus_stops= ['New York', 'Los Angeles', 'New Jersey', 'Boston', 'Miami', 'Mexico']
start_station = 'New York'
end_station = 'Boston'
print (bus_stops.index(end_station)-1) - bus_stops.index(start_station)

:)
```

Introvert - September 7, 2015, 9:46 am

Umm... There is no need for a loop here.

PHP Code

```
<?php
bus_stops= ['New York', 'Los Angeles', 'New Jersey', 'Boston', 'Miami', 'Mexico']

start_station = input("What is your start destination")
end_station = input("What is your end destination")

total = max(bus_stops.index(start_station), bus_stops.index(end_station)) - min(bus_stops.index(
start_station), bus_stops.index(end_station))
```

Dyst0pia - September 8, 2015, 4:45 am

(Sep 7, 2015 09:46 AM)Introvert Wrote: [\[CITE\]](#) Umm... There is no need for a loop here.

PHP Code

```
<?php
```

```
bus_stops= ['New York', 'Los Angeles', 'New Jersey', 'Boston', 'Miami', 'Mexico']
```

```
start_station = input("What is your start destination")
```

```
end_station = input("What is your end destination")
```

```
total = max(bus_stops.index(start_station), bus_stops.index(end_station)) - min(bus_stops.index(start_station), bus_stops.index(end_station))
```

Thanks for this, it does make it simpler. ?