

Review #1

```
1 x = ["hello", 1, 2, 3.5]
2
3 print(x[0])
4 print(x[1])
5 print(x[2])
6 print(x[3])
7 print(x[4])
```

Review #2

```
1 x = ["hello", 1, 2, 3.5]
2
3 print(x[0])
4 print(x[1])
5 print(x[2])
6 print(x[3])
7 print(x[4])
```

Review #3

```
1 x = ["hello", 1, 2, 3.5]
2
3 print(x[0])
4 print(x[1])
5 print(x[2])
6 print(x[3])
7 print(x[4])
```

```
1 x = ["hello", 1, 2, 3.5]
2
3 print(x[3-0])
4 print(x[3-1])
5 print(x[3-2])
6 print(x[3-3])
```

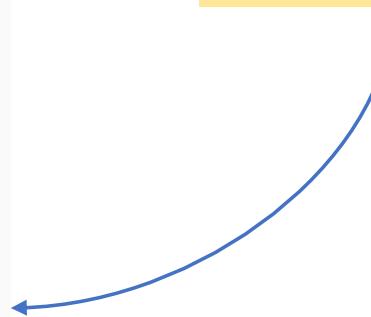
Review #4

```
1 x = ["hello", 1, 2, 3.5]
2
3 i = 0
4 while i < 4:
5     print(x[3-i])
6     i = i + 1
```

Review #5

```
1 rooms = []
2
3 # input the first name
4 name = input("enter a person's name:")
5
6 # input the rest of the names, until user enters ""
7 while name != "":
8     rooms.append(name)
9     name = input("enter a person's name:")
10
11 # calculate the number of items in the list
12 numRooms = len(rooms)
13
14 # print the people in the rooms in order
15 i = 0
16 while i < numRooms:
17     print( rooms[ i ] )
18     i = i + 1
```

Print in
reverse
order?



More on Lists (sounds a bit like “Moron” Lists)

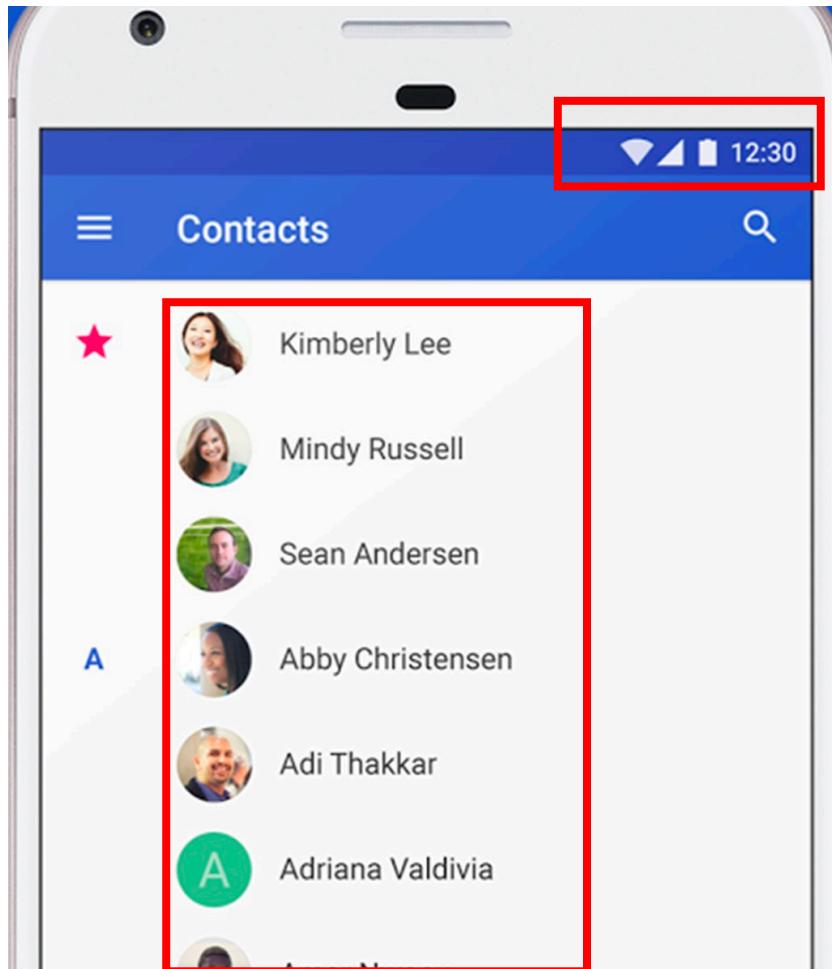
Why study lists?

Lists are everywhere...



Q W E R T Y U I O P A S D F G H ...

Lists are everywhere...



Lists are everywhere...



Set of weapons

Set of skins

Set of creatables

Set of building blocks

Set of wood

Player 1
Player 2
...
Player N

Polling

Lists are everywhere...

1 Review #1

```
1 x = ["hello", 1, 2, 3.5]
2
3 print(x[0])
4 print(x[1])
5 print(x[2])
6 print(x[3])
7 print(x[4])
```

Review #1

2 Review #2

```
1 x = ["hello", 1, 2, 3.5]
2
3 print(x[0])
4 print(x[1])
5 print(x[2])
6 print(x[3])
7 print(x[4])
```

3 Review #3

```
1 x = ["hello", 1, 2, 3.5]
2
3 print(x[3-0])
4 print(x[3-1])
5 print(x[3-2])
6 print(x[3-3])
```

4 Review #4

```
1 x = ["hello", 1, 2, 3.5]
2
3 i = 0
4 while i < 4:
5     print(x[3-i])
6     i = i + 1
```

5 Review #5

```
1 rooms = []
2 # input the first name
3 name = input("enter a person's name:")
4
5 # input the rest of the names, until user enters ""
6 while name != "":
7     rooms.append(name)
8     name = input("enter a person's name:")
9
10 # calculate the number of items in the list
11 numRooms = len(rooms)
12
13 # print the people in the rooms in order
14 i = 0
15 while i < numRooms:
16     print(rooms[i])
17     i = i + 1
```

Print in reverse order?

6 More on Lists
(sounds a bit like "Moron" Lists)

So you must learn how to:

1. Store data in lists
2. Go through items in lists in some order
3. Change items
4. Cutting a list into different sizes

You already know how to store data in lists

Method 1: When you already know what to store in the list

```
1 aList = ["hello", "bello", "cello", "dello"]
```

Method 2: When you don't know what to store, but come to know later

```
1 aList = []
2 aList.append("hello")
3 aList.append("bello")
4 aList.append("cello")
```

You also know how to go through a list

```
1 aList = []
2 aList.append("hello")
3 aList.append("bello")
4 aList.append("cello")
5
6 num0fItems = len(aList)
7 i = 0
8 while i < num0fItems:
9     print( aList[ i ] )
10    i = i + 1
```

There is another way.. Much simpler

```
1 aList = []
2 aList.append("hello")
3 aList.append("bello")
4 aList.append("cello")
5
6 for item in aList:
7     print(item)
```

And to do it in reverse.. Is also easy 😊

```
1 aList = []
2 aList.append("hello")
3 aList.append("bello")
4 aList.append("cello")
5
6 for item in reversed(aList):
7     print(item)
```

Warmup #1:

Write a program where:

1. You ask a user to enter names until they say ""
2. You store all the names in a list
3. Then you print all the names

Warmup #2:

Write a program where:

1. You ask a user to enter names until they say ""
2. You store all the names in a list
3. Then you print all the names in REVERSE order

Program #1

Write a program where:

1. You ask a user to enter names until they say ""
2. You store all the names in a list
3. Then you print the names as below:

Suppose the user enters ["hello", "bello"]

You must output:

["hello", "bello", "bello", "hello"]