3.1 Guest List: If you could invite anyone, living or deceased, to dinner, who would you invite? Make a list that includes at least three people you'd like to invite to dinner. Then use your list to print a message to each person, inviting them to dinner.

```
living_persons= ["Ali","Mohamed","Mahmoud","Ibrahim"]
deceased_persons = ["Hossam","Hassan","barakat","islam"]
```

```
invited_persons = []
invited_persons.append(living_persons[0])
invited_persons.append(living_persons[1])
invited_persons.append(deceased_persons[0])
for person in invited_persons:
    print(f"Hello {person} you are invited to the dinner :)")
```

```
Hello Ali you are invited to the dinner :)
Hello Mohamed you are invited to the dinner :)
Hello Hossam you are invited to the dinner :)
```

Changing Guest List: You just heard that one of your guests can't make the dinner, so you need to send out a new set of invitations. You'll have to think of someone else to invite. Start with your program from Exercise 3.1. Add a print() call at the end of your program stating the name of the guest who can't make it. Modify your list, replacing the name of the guest who can't make it with the name of the new person you are inviting. Print a second set of invitation messages, one for each person who is still in your list.

```
print(invited_persons)
```

```
['Ali', 'Mohamed', 'Hossam']
```

here i was modifying my list using pop and insert, but to avoid confusion if you want to try the code your self, i will initialize the list again.

```
#lets say that mohamed for example wont be able to come, then we need to pop mohamed from our invited list, we can do that using
#like saying
#invited_persons.remove("Mohamed")
print(invited_persons)
#invited_persons.insert(1,"Mohamed")
#invited_persons.remove("Mohamed")
print(invited_persons)
```

```
['Ali', 'Mohamed', 'Hossam']
['Ali', 'Mohamed', 'Hossam']
```

```
invited_persons = ["Ali","Mohamed","Hossam"]
print(f"the invited persons before Hossam make an execuse! {invited_persons}")
#here i removed the person that can't actaully come
print(f"{invited_persons.pop(2)} won't be able to come!")
print(f"the invited persons after Hossam made an execuse: {invited_persons}")
#since hossam is dead, he cant actaully come!!
```

```
the invited persons before Hossam make an execuse! ['Ali', 'Mohamed', 'Hossam']
Hossam won't be able to come!
the invited persons after Hossam made an execuse: ['Ali', 'Mohamed']
```

```
#now im going to invite a new persons from the living persons:
#so he can come
invited_persons.insert(2,living_persons[2])
print(invited_persons)
```

```
['Ali', 'Mohamed', 'Mahmoud']
```

```
for person in invited_persons:
    print(f"Hi {person}! You are invited to the dinner!!")
```

```
Hi Ali! You are invited to the dinner!!
Hi Mohamed! You are invited to the dinner!!
Hi Mahmoud! You are invited to the dinner!!
```

3.3 More Guests: You just found a bigger dinner table, so now more space is available. Think of three more guests to invite to dinner. Start with your program from Exercise 3.1 or Exercise 3.2. Add a print() call to the end of your program informing people that you found a bigger

dinner table. Use insert() to add one new guest to the beginning of your list. Use insert() to add one new guest to the middle of your list. Use append() to add one new guest to the end of your list. Print a new set of invitation messages, one for each person in your list In [ ]:

```
print(f"the invited people now are: {invited_persons}")
print(f"We have in our living persons list: {living_persons}")
print(f"We have in our deceased persons list: {deceased_persons}")
#so we can extend our list with ibrahim barakat islam for example as all the living persons are already present
invited_persons.extend(deceased_persons)
print(invited_persons)
```

```
the invited people now are: ['Ali', 'Mohamed', 'Mahmoud']
We have in our living persons list: ['Ali', 'Mohamed', 'Mahmoud', 'Ibrahim']
We have in our deceased persons list: ['Hossam', 'Hassan', 'barakat', 'islam']
['Ali', 'Mohamed', 'Mahmoud', 'Hossam', 'Hassan', 'barakat', 'islam']
```

```
#new set of invitations messages:
for person in invited_persons:
    print(f"{person}, You are invited to the dinner!")
```

```
Ali, You are invited to the dinner!
Mohamed, You are invited to the dinner!
Mahmoud, You are invited to the dinner!
Hossam, You are invited to the dinner!
Hassan, You are invited to the dinner!
barakat, You are invited to the dinner!
islam, You are invited to the dinner!
```

```
#if i want to apply what is mentioned specifically and use insert to add in the middle and append to add at the end, here it is
invited_persons = ["Ali","Mohamed","Mahmoud","Khaled"]
invited_persons.insert(2,"medhat")
invited_persons.append("rushdy")
for person in invited_persons:
    print(f"{person}! You are invited to the dinner!")
```

```
Ali! You are invited to the dinner!
Mohamed! You are invited to the dinner!
medhat! You are invited to the dinner!
Mahmoud! You are invited to the dinner!
Khaled! You are invited to the dinner!
rushdy! You are invited to the dinner!
```

```
Start coding or generate with AI.
```