

1) You have several managers ids:

```
user_ids = [11,12,13,14,15]
```

and a list of contacts:

```
contacts = [  
{ 'name': 'John Doe', 'id':1, 'manager_id': ''},  
{ 'name': 'Vasiya Pupkin', 'id':2, 'manager_id': ''},  
{ 'name': 'John Pupkin', 'id':3, 'manager_id': ''},  
{ 'name': 'Vasya Doe', 'id':4, 'manager_id': ''},  
{ 'name': 'John Smith', 'id':5, 'manager_id': ''},  
{ 'name': 'Homer Simpson', 'id':6, 'manager_id': ''},  
{ 'name': 'Winnie the Pooh', 'id':7, 'manager_id': ''},  
{ 'name': 'Bender Rodriguez', 'id':8, 'manager_id': ''},  
{ 'name': 'Philip J. Fry', 'id':9, 'manager_id': ''},  
{ 'name': 'Fox Mulder', 'id':10, 'manager_id': ''},  
{ 'name': 'Parry Mason', 'id':11, 'manager_id': ''}  
]
```

Task: you need to apply managers (user\_ids) to contacts (contacts[n]['manager\_id'] one by one (round robin).

You may use any python modules to succeed. Keep in mind, there can be any number of managers and contacts.

2) You have a list of emails:

```
mails = [  
'Sep 30, 2019. From: Robot. Subject: John Doe viewed the document. 123',  
'Oct 15, 2019. To: me. Subject: Spam. Spam',  
'Dec 2, 2019. From: Robot. To: me. Subject: Vasya Pupkin viewed the document. Please sign',  
'Dec 15, 2019. Subject: The truth is out there',  
'Dec 25, 2019. Subject: Merry Christmas!'
```

'Jan 10, 2020. Subject: Fox Mulder viewed the document. Please check',

'Jan 12, 2020. Subject: John Doe viewed the document. Great news...'

]

Task: you should to collect all the names from the mails list, where mail contains 'Subject: \* viewed the document'.

The result should be a list of unique name entries.

3) The JSON string contains the next data structure (US/Eastern local time):

```
json_str = '{"dt": ["2019-03-28 13:27", "2019-05-15 23:14", "2020-01-15 12:29"]}'
```

Task: you need to build the Python list of dates/times as UTC Timezone

and POST it as 'VALS' parameter to [http://some\\_example.com/controller/get\\_data](http://some_example.com/controller/get_data)