

```

1 class Server:
2     self.setOfLists = {}                # init: no lists to manage
3
4     def run(self):
5         while True:
6             (conn, addr) = self.sock.accept() # accept incoming call
7             data = conn.recv(1024)           # fetch data from client
8             request = pickle.loads(data)      # unwrap the request
9
10            if request[0] == CREATE:           # create a list
11                listID = len(self.setOfLists) + 1 # allocate listID
12                self.setOfLists[listID] = []      # initialize to empty
13                conn.send(pickle.dumps(listID))   # return ID
14
15            elif request[0] == APPEND:         # append request
16                listID = request[2]            # fetch listID
17                data = request[1]              # fetch data to append
18                self.setOfLists[listID].append(data) # append it to the list
19                conn.send(pickle.dumps(OK))      # return an OK
20
21            elif request[0] == GETVALUE:       # read request
22                listID = request[1]            # fetch listID
23                result = self.setOfLists[listID] # get the elements
24                conn.send(pickle.dumps(result)) # return the list

```