DS3500: Advanced Programming with Data

HW4: Help Khoury Assign TAs to Labs!

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Report & Deliverables for 1, 3, and 4:

1. Code in Gradescope, Link to github repo:
https://github.khoury.northeastern.edu/gemma/HW4---Group-11.git

3. Details for one of our best solutions:
   - Evaluation Scores: {'Overallocation': 0, 'Conflicts': 4, 'Undersupport': 2, 'Unwilling': 0, 'Unpreferred': 1}
   - Dictionary: {0: [8], 1: 'TA is not working', 2: [8], 3: [14], 4: [7], 5: 'TA is not working', 6: [8], 7: [3, 15], 8: [0], 9: [3], 10: [5, 6], 11: [14], 12: 'TA is not working', 13: [7, 16], 14: [13], 15: [2, 11], 16: [14], 17: [4], 18: [1, 9], 19: [12], 20: [0, 4], 21: [5], 22: [0, 12], 23: [15], 24: [11, 16], 25: [0], 26: [1, 9], 27: [5], 28: [13], 29: [4], 30: [16], 31: [2], 32: [11], 33: [6], 34: [10], 35: 'TA is not working', 36: [12], 37: [1], 38: [0], 39: [3, 4], 40: [0], 41: [10], 42: 'TA is not working'}
   - def compress(sol): returns a dictionary
   - The dictionary key:value pairs were printed into the below format for readability

All TA assignments below:

TA 0 is assigned to Section(s) 8
TA 1 is not working (no section assignments)
TA 2 is assigned to Section(s) 8
TA 3 is assigned to Section(s) 14
TA 4 is assigned to Section(s) 7
TA 5 is not working (no section assignments)
TA 6 is assigned to Section(s) 8
TA 7 is assigned to Section(s) 3, 15
TA 8 is assigned to Section(s) 0
TA 9 is assigned to Section(s) 3
TA 10 is assigned to Section(s) 5, 6
TA 11 is assigned to Section(s) 14
TA 12 is not working (no section assignments)
TA 13 is assigned to Section(s) 7, 16
TA 14 is assigned to Section(s) 13

TA 15 is assigned to Section(s) 2, 11
TA 16 is assigned to Section(s) 14
TA 17 is assigned to Section(s) 4
TA 18 is assigned to Section(s) 1, 9
TA 19 is assigned to Section(s) 12
TA 20 is assigned to Section(s) 0, 4
TA 21 is assigned to Section(s) 5
TA 22 is assigned to Section(s) 0, 12
TA 23 is assigned to Section(s) 15
TA 24 is assigned to Section(s) 11, 16
TA 25 is assigned to Section(s) 0
TA 26 is assigned to Section(s) 1, 9
TA 27 is assigned to Section(s) 5
TA 28 is assigned to Section(s) 13
TA 29 is assigned to Section(s) 4
TA 30 is assigned to Section(s) 16
TA 31 is assigned to Section(s) 2
TA 32 is assigned to Section(s) 11
TA 33 is assigned to Section(s) 6
TA 34 is assigned to Section(s) 10
TA 35 is not working (no section assignments)
TA 36 is assigned to Section(s) 12
TA 37 is assigned to Section(s) 1
TA 38 is assigned to Section(s) 0
TA 39 is assigned to Section(s) 3, 4
TA 40 is assigned to Section(s) 0
TA 41 is assigned to Section(s) 10
TA 42 is not working (no section assignments)

4.

✔ Tests passed: 5 of 5 tests – 65 ms

```
/Users/ryanhuang/opt/anaconda3/envs/ds/bin/python /Applications/PyCharm CE.app/Contents/
Testing started at 9:09 PM ...
Launching pytest with arguments /Users/ryanhuang/PycharmProjects/HW4/test_objectives.py

============================== test session starts ==============================
collecting ... collected 5 items

test_objectives.py::test_overallocation PASSED                           [ 20%]
test_objectives.py::test_conflicts PASSED                                [ 40%]
test_objectives.py::test_undersupport PASSED                             [ 60%]
test_objectives.py::test_unwilling PASSED                                [ 80%]
test_objectives.py::test_unpreferred PASSED                              [100%]


============================== 5 passed in 1.59s ==============================


Process finished with exit code 0
```