

[Courseware \(/courses/MITx/6.00x/2012_Fall/courseware/\)](/courses/MITx/6.00x/2012_Fall/courseware/)[Course Info \(/courses/MITx/6.00x/2012_Fall/info/\)](/courses/MITx/6.00x/2012_Fall/info/)[Textbook \(/courses/MITx/6.00x/2012_Fall/book/0/\)](/courses/MITx/6.00x/2012_Fall/book/0/)[Discussion \(/courses/MITx/6.00x/2012_Fall/discussion/forum/\)](/courses/MITx/6.00x/2012_Fall/discussion/forum/)[Wiki \(/courses/MITx/6.00x/2012_Fall/course_wiki/\)](/courses/MITx/6.00x/2012_Fall/course_wiki/)[Progress \(/courses/MITx/6.00x/2012_Fall/progress/\)](/courses/MITx/6.00x/2012_Fall/progress/)

PROBLEM 2: BUILDING UP THE CAMPUS MAP

Decide how the campus map problem can be modeled as a graph. Write a description of your design approach as a comment under the Problem 1 heading in `ps10.py`. What do the graph's nodes represent in this problem? What do the graph's edges represent in this problem?

```
# Problem 2:
#
# Write a couple of sentences describing how you will model the
# problem as a graph
#
```

In the `load_map` function of `ps10.py` read in the building data from `mapFilename` and build a directed graph to properly represent the MIT campus map (according to the file).

```
def load_map(mapFilename):
    """
    Parses the map file and constructs a directed graph

    Parameters:
        mapFilename : name of the map file

    Assumes:
        Each entry in the map file consists of the following four
        positive integers, separated by a blank space:
            From To TotalDistance DistanceOutdoors
        e.g.
            32 76 54 23
        This entry would become an edge from 32 to 76.

    Returns:
        a directed graph representing the map
    """
    # TO DO
```

[Check](#)[Save](#)*You have used 0 of 10 submissions*[Show Discussion](#)[New Post](#)



(<http://youtube.com/user/edxonline>)



(<https://plus.google.com/108235383044095082735>)



(<http://www.facebook.com/EdxOnline>)



(<https://twitter.com/edXOnline>)

© 2012 edX, some rights reserved.

[terms of service \(/tos\)](#)

[privacy policy \(/privacy\)](#)

[honor code \(/honor\)](#)

[help \(/help\)](#)