

Name (print) _____

Asgn # 6 Due Friday Dec 5 11am In CS Office

Dr. Kaminski - you have my word that:

1. I wrote this entire application myself - in accordance with the guidelines in the course policies & syllabus and university policies of what's considered acceptable student academic conduct. Any other code (longer than a couple lines) used in this assignment which was created by someone else (even if changed slightly) or was written jointly with someone else is both clearly attributed (in a comment in the code) and described on the BOTTOM OF THIS COVER PAGE.
2. The program code attached here did actually produce the data file which are attached here.
3. There was no editing of the data file after the attached programs produced them (except perhaps the font, font size and/or page-orientation for printing).

Signature _____

Final score for asgn is outputPoints MINUS the negative programming points: _____ (you can calculate this)
YES, even if OUTPUT is totally correct, you could get 0 points for asgn if program didn't follow the specs!

----- for GRADER (below) -----

_____ a range of 0-100 points for OUTPUT

MichiganMapData.bin

- It's a BINARY file (not a text file) - as shown in HexEditor printout
- It's correct, as shown in the PrettyPrint to the Log file
- There are 3 possible values in the matrix: actual edge values, 0's in the diagonal, and XXX's in the non-edge spots in the PrettyPrint display (which are maxShort values in the binary file)

Log.txt file (the bulk of the points)

- TotalDistance and ShortestRoute values are correct
 - o if the route/distance is OBVIOUSLY wrong such that the programmer SHOULD HAVE CAUGHT the problem and fixed it (like duplicate cities on the route, like cities aren't part of a "reasonable-looking" route, like the route includes way-off-the-route cities), THEN take more points off as opposed to a slightly-wrong route/distance
- ShortestRoute goes from START to DESTINATION (rather than Destination to Start)
- ShortestRoute shows city NAMES and not city NUMBERS
- Log file printout follows specs in terms of formatting (pretty much exactly)
- Trace of targets lists cities in the ORDER THEY WERE SELECTED (rather than in order based on cityNumber (i.e., the order of cityList as seen in PrettyPrint output))
- Processes all CityPairs in the file (including the 1st and last)

Dear Programming Grader: Here's what to grade regarding "programming": (write MINUS POINTS for each)

_____ **Used program structure specified in specs (programs, classes, methods, module-naming)**

(NO → up to -10 points, depending on severity of problem)

_____ **Route & MapData classes (and their methods) DO what they're supposed to do & not some other module's job(s)**

(NO → up to -10 points, depending on severity of problem)

_____ **MapData's getRoadDistance reads a single SHORT from the BINARY file (vs. the TXT file)**

(NO → you'd have already lost points in the OUTPUT section above if there was no BINARY file)

(NO → reads more than just a single short? -4 points)

_____ **MapData uses the EXTERNAL graph matrix (vs. reading the matrix into a 2D array in memory)**

(NO → -15 points for having the matrix loaded into memory)