

This miniproject asks you to create graphs that represent results in athletic competitions.

The NCAA Division II conference NCC folded at the end of the 2007/2008 academic year. In that season, it had nine teams as members: Augustana, University of Minnesota Duluth, Minnesota State University Mankato, University of Nebraska Omaha, University of North Dakota, St. Cloud State University, University of South Dakota, Central Washington University, and Western Washington University. UND and USD switched to Division I at the end of the appropriate sporting season. Augustana, Duluth, Mankato, and St. Cloud State all joined the NSIC, the conference that the MSUM Dragons are in. Omaha joined the MIAA, a Division II conference with schools from Missouri, Kansas, and Nebraska, and the two in Washington state joined the GNAC, a Division II conference with schools in Washington, Oregon, Idaho, Montana, and Alaska.

The data file the accompanies this project has the results for the 2007 football season for the NCC.

- (a) Create a digraph that represents all of the games and their results, where an edge goes from school A to school B if A beat B in football in the 2007 regular season.
- (b) Create a digraph that represents just those games that the University of Minnesota Duluth participated in, with the same direction to the directed edges.
- (c) Create a digraph that represents just the following games:

SCSU vs. MSU,M

MSU,M vs. UMD

UMD vs. Augustana

Augustana vs. Western Washington

Western Washington vs. SCSU