Project #4
Due 11/12/02

Below is a map of a campus with 1000 students spread across five dorms. There are 200 students in dorm A, 300 in dorms C and D, and 100 in dorms E and F. The paths between the dorms are indicated, with the total distance between them in feet. You are the owner of a successful Hot Dog company, and have received permission from the administration to set up a Hot Dog stand that is open on the weekends (only). Where would you like to place it? Does your answer change if you can open it during the week as well?

Rules:
1. The assignment is due at the beginning of class on November 12, 2002.
   a. Students will complete a short written paper describing their result and their justification
   b. Students will prepare a 10-minute presentation describing their result, to be given in class on November 12, 2002.
2. This project is to be completed by teams of 1–4 students, and all students shall make a reasonable contribution to the solution of the problem. Separate from the assignment, each student shall hand in a sheet that describes the work of the group. This will be used in grading; students in the same group may receive different grades.
3. You may not discuss this project with other members of class, or with anyone outside of class. You may (only) discuss the project with the instructor.
4. Aside from the restrictions in (3) above, the use of outside references is acceptable, and indeed encouraged. However, all outside references need to be properly acknowledged.

Acknowledgements: This problem is modified from Consortium, No. 82, Summer 2002, COMAP.