

# Project Planning Form

## CSE 373, Spring 2004

The final assignment in CSE 373 is the “project” in which you have an opportunity to select a technique and develop a demonstration of it for the rest of the class. Turn in this form on Monday, May 17, in class, as a plan for completing the project.

**Name(s):** Write your name. If you will be working in a partnership, turn in one form that has both partners’ names on it.

Partner 1: \_\_\_\_\_

Partner 2: \_\_\_\_\_

**Choose** one of the following options in A, B, or C. Circle your choice. More details for each topic are on the projects page in our web site.

**A.** Topics for partnerships: a. Web spider and search engine. b. Graph Layout. c. Graph shortest path finding with Dijkstra's algorithm. d. Image segmentation using Disjoint sets operations.

**B.** Individual-mode project topics: 1. Disjoint sets implementation without application to image segmentation. 2. Knuth-Morris-Pratt string matching algorithm. 3. B-Trees applet demo supporting insert and delete as well as find and inorder traversal. 4. Splay trees applet demo.

**C.** You may also propose your own topic. It must involve the implementation of a data structure or algorithm related to the course. It must be demonstrated using the visual applet framework that we are using in the course, including showing the data structure and accepting textual commands. If you are proposing your own topic, you must give its name here and describe it on the back of this form. This description must be turned in on Monday, May 17, and must be approved by the instructor. Otherwise, you’ll need to stick with one of the suggested project topics. Proposed topic name: \_\_\_\_\_

**Original features.** Each project, whether individual or partnership, should contain some novel, original feature. What novel application or original twist are you thinking of including in your project?

**Schedule.** Your program must be completed and ready to demonstrate by June 4. Indicate your plan for completing the major milestones below by annotating or commenting on the draft plan below.

May 17: partner chosen and topic decided.

May 19: main features and extra features identified and considered with regard to demo/learning impact and implementation challenges. Partnerships

May 21: key Java classes identified and described using JavaDoc style comments, written in English.

May 24: first version of key Java class implemented.

May 26: additional features and debugging.

May 28: working demo of stripped-down functionality.

June 2: full program working.

June 4: demo is ready with sample data, and up on the web.