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Subject: Informatics 113: Assignment 1
Date: January 18, 2010 12:41:16 PM PST
To: "37040-W10@classes.uci.edu" <37040-W10@classes.uci.edu>
Cc: Richard Taylor <taylor@ics.uci.edu>

I. Team Membership

- a) If you have created your own team, then one team member needs to send me an email identifying all the members of the team.
- b) If you would like to be assigned to a team, then send email saying you want to be in a group.
- c) If you would like to work alone, then send me an email saying this so that I don't assign you to a group.
- d) If you work in a team, every team member will receive the same grade for the assignment.

For Cranium, the maximum size of a group is 4.

I need to hear from all of you no later than Jan 19 by 8pm. I will look at the emails and assign teams on Jan 19, and respond back to folks that want to be in a group on Jan 20.

II. Assignment:

Cranium is a board game as described in the links on the class website and, most importantly, in two documents posted on the EEE course website. The files are "CraniumInstructions.pdf" and "CraniumCards.pdf".

1) Provide an unambiguous specification for how to play Cranium, based upon your analysis of "CraniumInstructions.pdf". This specification should include a glossary of terms. A good specification will enable every player at every point to know what to do, and will enable everyone to know when the game is over and who won. Put another way, when using your Specification, there should be no room for teams to get into a squabble about what happens next, who won, or whether any given action is legal.

You may choose to simply rewrite the instructions in "precise" English, or you can use any mixture of formal or semi-formal notations, such as you find in Chapter 4, to augment an English specification.

If you need to augment the rules to make the specification unambiguous, feel free to do so in any way that you like (but which should be consistent with the broad goal of having the game be fun to play).

- 2) With regard to the sample gamecards visible in “CraniumCards.pdf”:
 - a) provide an unambiguous specification for Card “A”.
 - b) identify any ambiguities that you see in Cards B, C, E, and F
 - c) provide an unambiguous specification for Card “D”.

Notes:

- The other cards are just for your edification (i.e. they are examples of cards found in the game’s stacks.
- There is a single die used in the game. It is 10-sided. There are two sides for each color: red, yellow, blue, green, and purple.

III. Deadline

The assignment is due on Jan 29th by 12pm. There is a dropbox on EEE titled “Cranium”, please submit your assignment to this dropbox. No late assignments will be accepted (timestamps will be checked).

IV. Assignment weight: 20% of your final grade.