So You Think You Can’t Dance

**TIME, DATE, LOCATION**
Sunday, October 16th, 7pm
La Plata basement

**OVERVIEW:**
- First year DCC students will be competing against each other with their code dances.
- Second year DCC students will be invited to attend with a non-DCC guest
- Second year DCC students and their guests will have voting privileges
- Pizza, soda and snacks will be provided
- Prizes will be awarded
- After the competition, there will be a dance party for DCC students and their guests

**DANCE:**
Using code concepts learned in class, students will break into groups and create 90 second dances that follow their own written pseudo-code. Students can create any type of dance, from ballroom to breakdance to ballet, and should choose (or create) a relevant song to dance to.

**TEAMS:**
- 5 to 6 students per team
- Sign up team name & members on google doc
- One student does not have to dance- this person acts as code comments, and is responsible for letting judges know what is happening in the dance
- The other students must dance according to the pseudo-code that they write.

**JUDGING:**
Judging will be done by student council and will be based on two events: a trial round and a performance round. Additionally, there will be a people’s choice vote, where second year DCC students and their guests can vote for their favorite performances.

**COMPETITION**
The competition will be broken up into 2 parts:

**Event 1: codeTrials**
- each group must demonstrate individual sequences-
  - operators, loops, conditionals
  - each of these will be judged individually -
    - show comprehension of concept
Event 2: functionDance
Each group will have 90 seconds to perform a choreographed code dance comprised of operators, loops, conditionals and functions.

All dance steps should be given names - either as variables, loops, or functions the code comment person should announce each named item as it is about to happen

RULES & JOINTS RUBRIC

**codeTrials** 30%
You must show that your group can perform the following basic functions by using individual pieces of your dance choreography:

**operators** 8%
- addition
- subtraction
- multiplication
- division

**conditionals** 12%
- if / then
- if / else

**loops** 10%
- while
- for each

**functionDance** 70%
The full version of the dance choreography must include the following:

**operators** 12%
**conditionals** 12%
**loops** 12%
**variables** 12%
**strings** 10%
**comments** 12%

Rules for the dance:
The entire dance must be contained within one function. It is optional to include multiple functions within the dance function.

The dance should be around 90 seconds long, no longer than 2 minutes.
OUTLINE OF EXPECTATIONS FOR ASSIGNMENT:
- Create dance routine (and subroutines for trials)
  (90 seconds for dance, 20 seconds for each subroutine)
- Write up pseudo-code for each of these
- Practice dance routine and make sure it follows pseudo-code
- Come to dance competition and perform
- Post pseudo-code and documentation of each subroutine/routine to each group member’s blog
  (should be same pseudo-code, can be same or different documentation)
- Each individual should write and post a critical analysis to own blog
  - What does it mean to learn programming this way, instead of through a computer?
  - What other activities might you be able to express through pseudo-code?
  - Anything else you thought about or questions you came upon during the assignment
- The group pseudo-code and individual documentation/analysis will be graded, with your performance in consideration, but the performance judging & competition results will not affect your grade.