

September 25 PLT Group Meeting

Language Updates

- No longer need Score type: Pass [Measure] to genScore
- Add Beat type
 - Represents a length of musical time. It has a Time tag and integer type. Must have the string "Time" followed by an integer that is a power of 2 and < 32 in declaration
 - whole note: Time 1
 - half note: Time 2
 - quarter note: Time 4
 - eighth note: Time 8
 - sixteenth note: Time 16
 - thirty-second note: Time 32
 - Uses + operator to combine Time but only adds two operands that contain the same integer; recursively checks for Time operands that contain the same integers until only unequal Time integers are left
 - Time 4 + Time 16 + Time 16 + Time 16 + Time 16
 - Time 4 + Time 8 + Time 16 + Time 16
 - Time 4 + Time 8 + Time 8
 - Time 4 + Time 4 = Time 2 (quarter note + quarter note = half note)
- Add library function fillMeasure: Given a list of chords, return a boolean whether the beats of each chord in the list add up to a measure.
 - Time 1 + Time 32 evaluates to False (cannot have more than a whole note in a measure)
 - Time 4 + Time 16 evaluates to False (quarter note and sixteenth note do not contain enough beats for a measure)
 - Time 4 + Time 4 + Time 4 + Time 4 evaluates to True (4 quarter notes in one measure)

Language Reference Manual: Due October 28

Week	Goal
1 Starts 9/25	<ul style="list-style-type: none">• Skim C LRM<ul style="list-style-type: none">○ Note which aspects are in SMURF○ Note which aspects need to be modified for SMURF○ List parts of SMURF that don't have relation to C• Research how to compile (syntax/grammar) func. languages
2 Starts 10/2	<ul style="list-style-type: none">• Assign different sections to each team member to write (done by Monday 10/7)• Assign different sections to each team member to proofread (done between 10/7 and before 10/9 meeting)
3 Starts 10/9	<ul style="list-style-type: none">• Write grammar at this meeting• Start coding and testing

Potential Workflow

- Each person will fulfill (only) one of the following roles for a given section of SMURF, roles will rotate among each section
 - Writer
 - Proof-reader
 - Coder
 - Tester