COG366 Project Task 5 - Logic Model

For simplicity, I am only including the prioritization process of two tasks, i.e. deciding which task to do before another. This can be used in a more general case as the tie breaker of two tasks.

```
% in general, academic > work > extracurricular activities

academic(X) and work(Y) -> priority(X)

academic(X) and eca(Y) -> priority(X)

work(X) and eca(Y) -> priority(X)

sameType -> dueSooner?

% prioritize tasks with sooner due date

dueSooner(X) OR dueSooner(Y)

dueSooner(X) -> priority(X)

sameDate -> takeLonger?

% prioritize tasks that can take long

takeLonger(X) OR takeLonger(Y)

takeLonger(X) -> priority(X)

% maybe there are some “prefered” tasks that always get prioritized no matter what

% define academic stuff
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```
homework(X) -> academic(X)

project(X) -> academic(X)

% define work stuff

teachingAssistant(X) -> work(X)

diningHall(X) -> work(X)

% define extracurricular activities stuff

clubMeeting(X) -> eca(X)

% input

A = parallel project due 11/2

B = math homework due 11/3

project(A).

homework(B).

academic(A).

academic(B).

sameType -> dueSooner?

dueSooner(A) -> priority(A)

Current prioritization: A, B

% update input
```

```
A = parallel project due 11/4     % due date change!

not(dueSooner(A)) -> dueSooner(B)

dueSooner(B) -> priority(B)

Current prioritization: B, A
```