Scheduler Buddy Writeup

Structure all data in an object for id lookup

Fitness Function:

1. HeadCount
   1. Verify that all locations capacity are not exceeded
2. Capacity
   1. Verify that all locations capacity is not exceeded
3. TimeStart
   1. Verify that location is available at time start
   2. Verify that asset is available at time start
4. TimeEnd
   1. Verify that location is available at time end
   2. Verify that asset is available at time end
5. BreakStart
6. BreakEnd
   1. Verify that no asset has allocations during break

If all precious checks have passed, t

1. Ratio
   1. Iterate over timeline, every step increment, iterate over all assets. Verify that every allocation has their ratio met
2. Matrix
   1. Iterate over timeline, every step increment