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// File Name: TrainMe.h
// Written By: Christian Gruss
// Date Written: 04/18/2019
// This header file is responsible for selection of targeting stimuli
during the
// N-Back test. It is the training set for the N-Back test stimuli.
This header
// file contains information for visual target stimuli.
#ifndef TRAIN_ME_H
#define TRAIN_ME_H
#include <vector>
enum stimuli_visual_t
        VALID_TARGET,
        NON_VALID_TARGET
};
#define NUMERICAL_STIMULI_AMOUNT 50
using namespace std;
class TrainMe
        public:
                 TrainMe();
                 ~TrainMe();
                 void initialStimuli(int N);
                 void selectGridPosForStimuli(int numberOfBlocks);
                 void duplicateMyGridPos(const TrainMe&
trainMyObject);
                 void createGridVals();
                 void createTransitions();
                 void createGridMarkersRandomized();
                 int getValForGrid(int pos);
                 stimuli_grid_t getGridPos(int pos);
        private:
                 vector<int> TrainMe;
                 vector<stimuli_grid_t> GridMarkers;
                 vector<int> vacantGridMarkers;
                 vector<int> vacantGrids;
```

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vector<int> occupiedGridMarkers;
int NBackVal;
void createFirstStimuli();
void createSecondStimuli();
void randomizeMe();
void inhibitGrid(int pos);
void anyConstraints(int pos);
void clearGrid();
void clearGridMarker(int n);
void clearCurrGridMarker(int n, vector<int>&
vacantMarkers);
int randomizeGrid(int minimumVal, int maximumVal);
};
#endif
```