void printVector2d(vector<vector<double>> input){

cout << endl << "[ ";

for(int x=0; x<input.size(); x++){

cout << endl << " [";

for(int y=0; y<input[x].size(); y++){

cout << input[x][y] << ", ";

}

cout << "],";

}

cout << endl << "]" << endl;

}