

Design

Daniel G.
CSC 120
Project 1

1.) Create Rows

- 1.1) Repeatedly until $0 < \text{input} \leq 10 \leftarrow \text{rows number}$
- 1.2) Repeatedly until $0 < \text{input} \leq 8 \leftarrow \text{row posters}$
- 1.3) Loop through row numbers
 - 1.3.1) Assign row i to an array of size [row posters]

2.) Add Musician

- 2.1) Repeatedly until $A \leq \text{input} \leq B \leftarrow \text{row letter}$
- 2.2) Repeatedly until $0 < \text{input} \leq \text{row position length} \leftarrow \text{row position number}$
- 2.3) Repeatedly until $45 \leq \text{input} \leq 200 \leftarrow \text{weight}$
 - 2.3.1) Make sure doesn't exceed weight limit = row position $\times 100$
 - 2.3.2) Make sure there isn't already a musician in that spot

3.) Remove Musician

- 3.1) Repeatedly until $A \leq \text{input} \leq Z \leftarrow \text{row letter}$
- 3.2) Repeatedly until $0 < \text{input} \leq \text{row position length} \leftarrow \text{row position number}$
 - 3.2.1) If vacant, do nothing
 - 3.2.2) If occupied, set weight to 0

4.) Print Rows

- 4.1) Loop through rows
 - 4.1.1) Print row letter
 - 4.1.2) Loop through columns
 - 4.1.2.1) Print each weight
 - 4.1.3) Print Sum & Average

5.) Keep looping until user enters 'X'

- 5.1) while input is not X
 - 5.1.1) keep asking for inputs
 - 5.1.1.1) Do the method that corresponds to input letter