Programming Design Worksheet - Redfield

for CS1310 (programs 2-7) and CS1311 (programs 1-6)

Copy this file. Type and past images to create new documents for designs. Print it for class (if you must miss, submit one file to Designs).

First name Davide Last name Russillo

Design for program name Transpose

DATA

```
Variables needed in WORDS for main and globally
array of names
input file
output file
longest name length
number variable for iteration
number variable for iteration

C DECLARATIONS for main & global
char names[20][60];
FILE *in;
FILE *out;
int max_length = 0;
int i;
int j;
```

(STARTING TicTacToe:put image; or draw: Insert, Drawing; or put at end of the file) draw in RAM with possible values

```
Algorithm to PSEUDOCODE level for each function
(remember to indent under if, switch, while, do-while, for)
main:
open input file
open output file
for each name
      for each character
            replace it with ' '
for each name
      read it from the input file
      remove the newline at the end
for each name
      if the length of the name is greater than max_length
            set max length to length of name
for each character until index of max_length
      for each row
            if the character on that row is not null
                  print the character and two spaces to screen
                  print the character and two spaces to output file
            else
                  print three spaces to screen
                  print three spaces to output file
      print a newline
close input file
close output file
```

OTHER part of the design (see assignment - input or sample output)

Doom Eternal Minecraft Grand Theft Auto V Rainbow Six Siege Super Mario Bros Garfield Kart Mario Kart Wii Ultimate Pool Hand Simulator Red Dead Redemption 2 Watch Dogs American Truck Simulator Batman Arkham Asylum Just Cause 3 Superliminal **SUPERHOT** Assetto Corsa Boneworks Hitman Max Payne 3