

# Project 1

## <Munchkin Game>

**CIS-5**

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**Date: 2/6/20**

## **Introduction**

Title: Munchkin

Munchkin is a card game based around the classic rpg troupe of leveling up. 2+ players take turns “Kicking down the door”, revealing cards with monsters, curses, or other types of fantasy concepts. The goal of the game is to be the first player to reach level ten, primarily done through the defeat of monsters. After each monster is fought, they will provide a level and a number of treasures scaling based on the difficulty of the monster itself. In the full card based title, players can help and impede each other in their adventures resulting in a game more of social politics and backstabbing than dungeon delving.

## **Summary**

Project size: 247 Lines For Main

449 Including unused function Prototypes

The number of variables: 26

The number of method: 0

## **Description**

The main point of this program is to demonstrate the topics learned in the last five sections of this class. The program itself allows players to play an incredibly simplified version of the above described title. The program encompasses the main feeling of the game, whilst using the topics learned, and allowing room for improvements, resulting in a great learning tool for myself.

The project also includes several function prototypes that I used to create the initial structure of the program. These were later removed due to the no function creation requirement, but in future versions of this program, I will transition the majority of loops into these functions, allowing the main to be a more clear and precise style that is easy to read and follow.

## **Version Documentation:(In order of creation)**

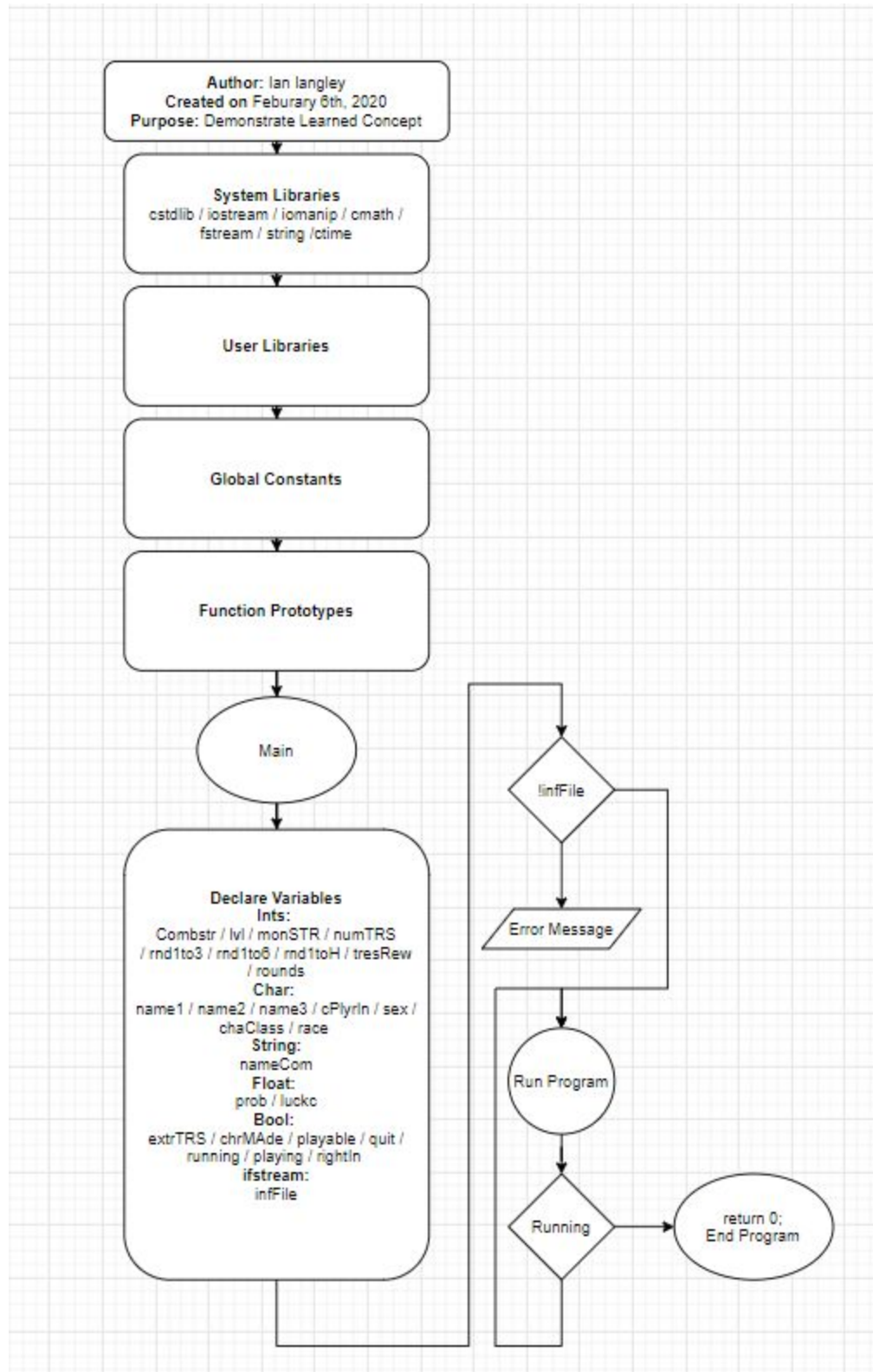
Version 1: Contains the main menu. Written in functions to later be translated

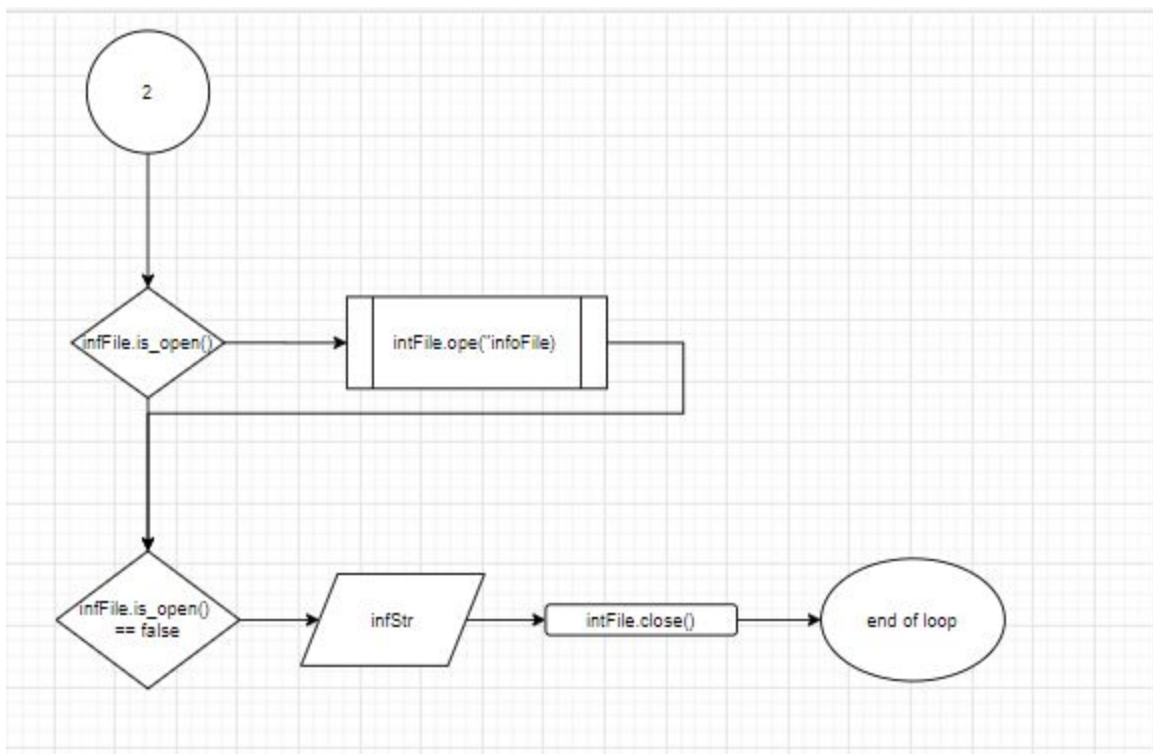
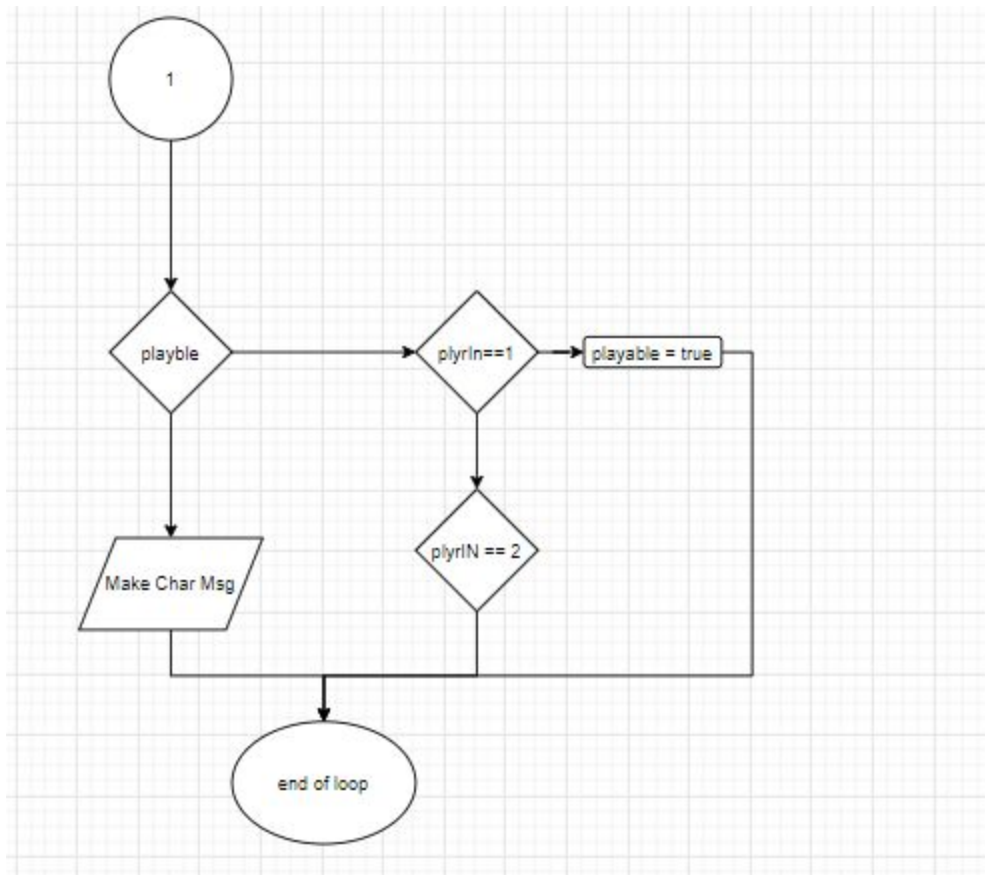
Combat Version 1: Contains the main combat loop. Would later be iterated on.

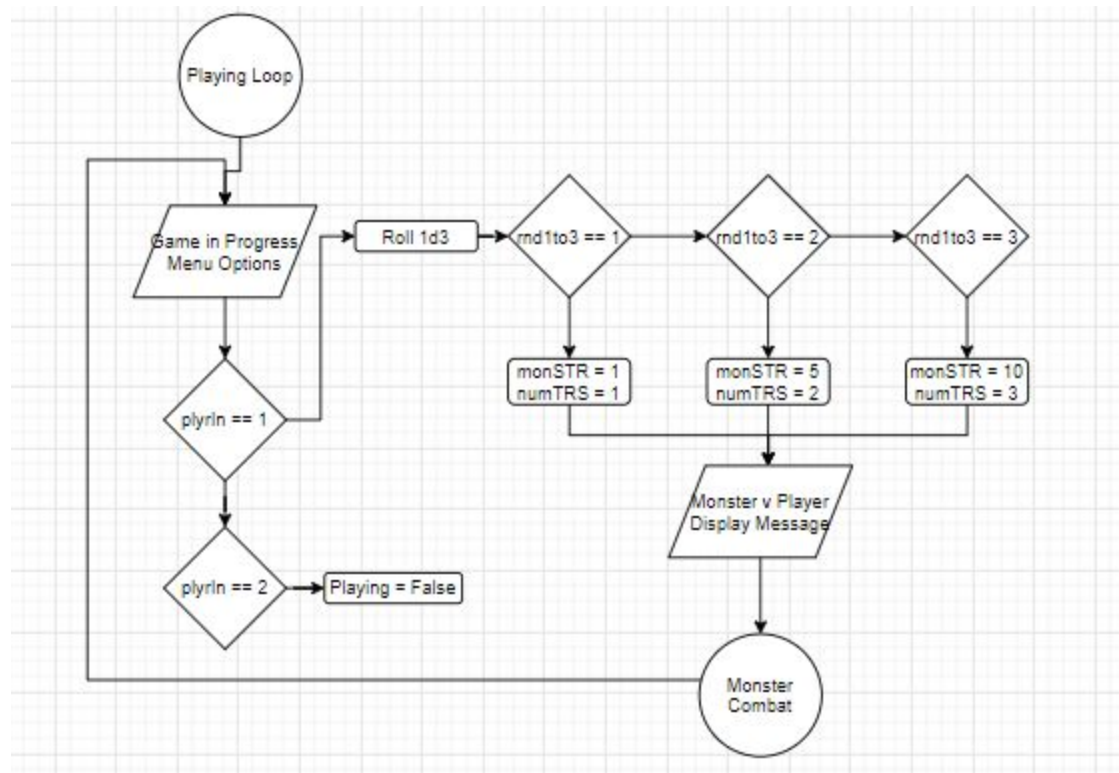
Version 2: Merges previous two versions. Allows for the player to initiate a game, no win condition yet.

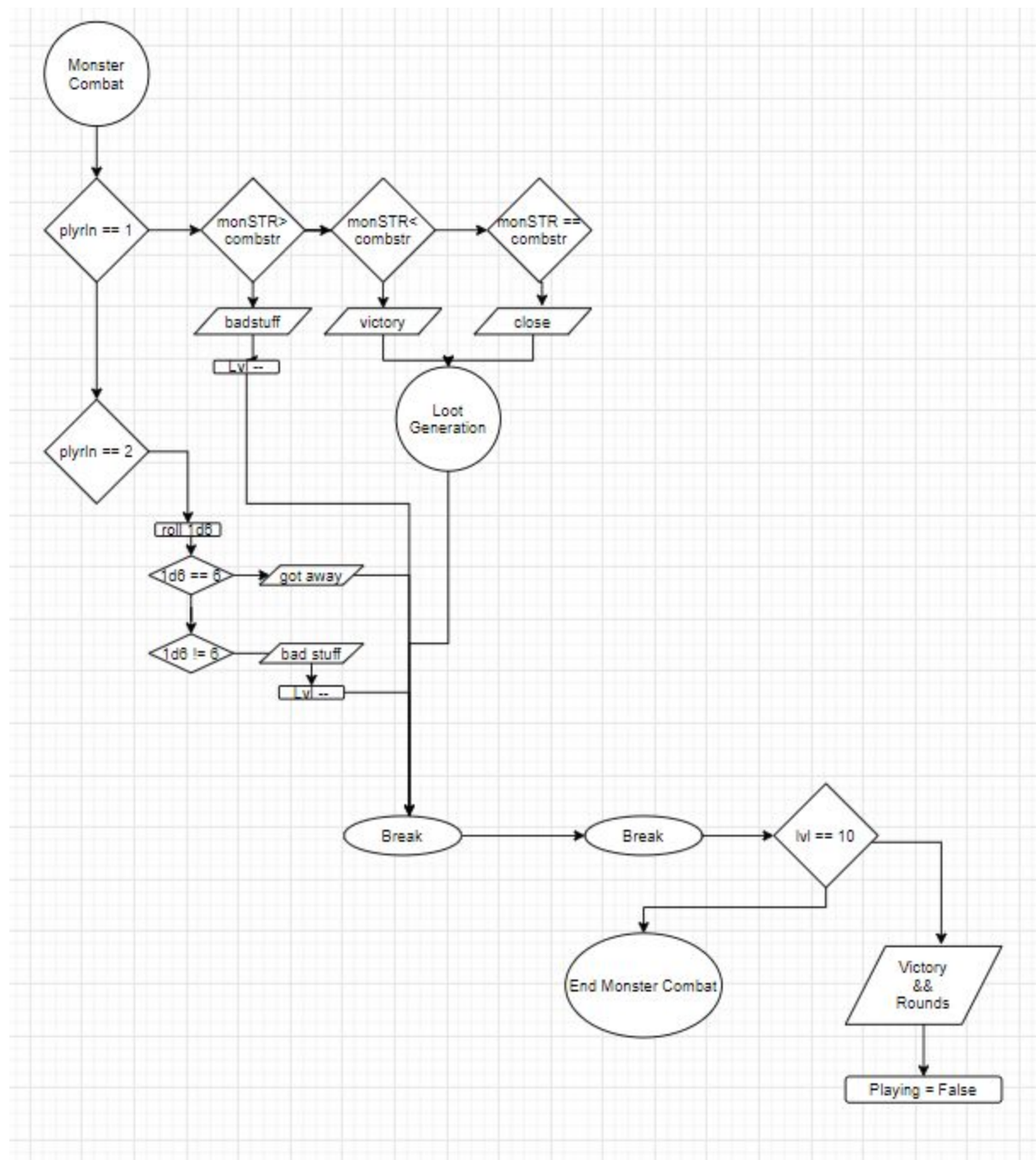
Version 3: Adds final touches to combat and win condition. Can now effectively play the game. Diversifying the gameplay itself to be touched on in future versions.

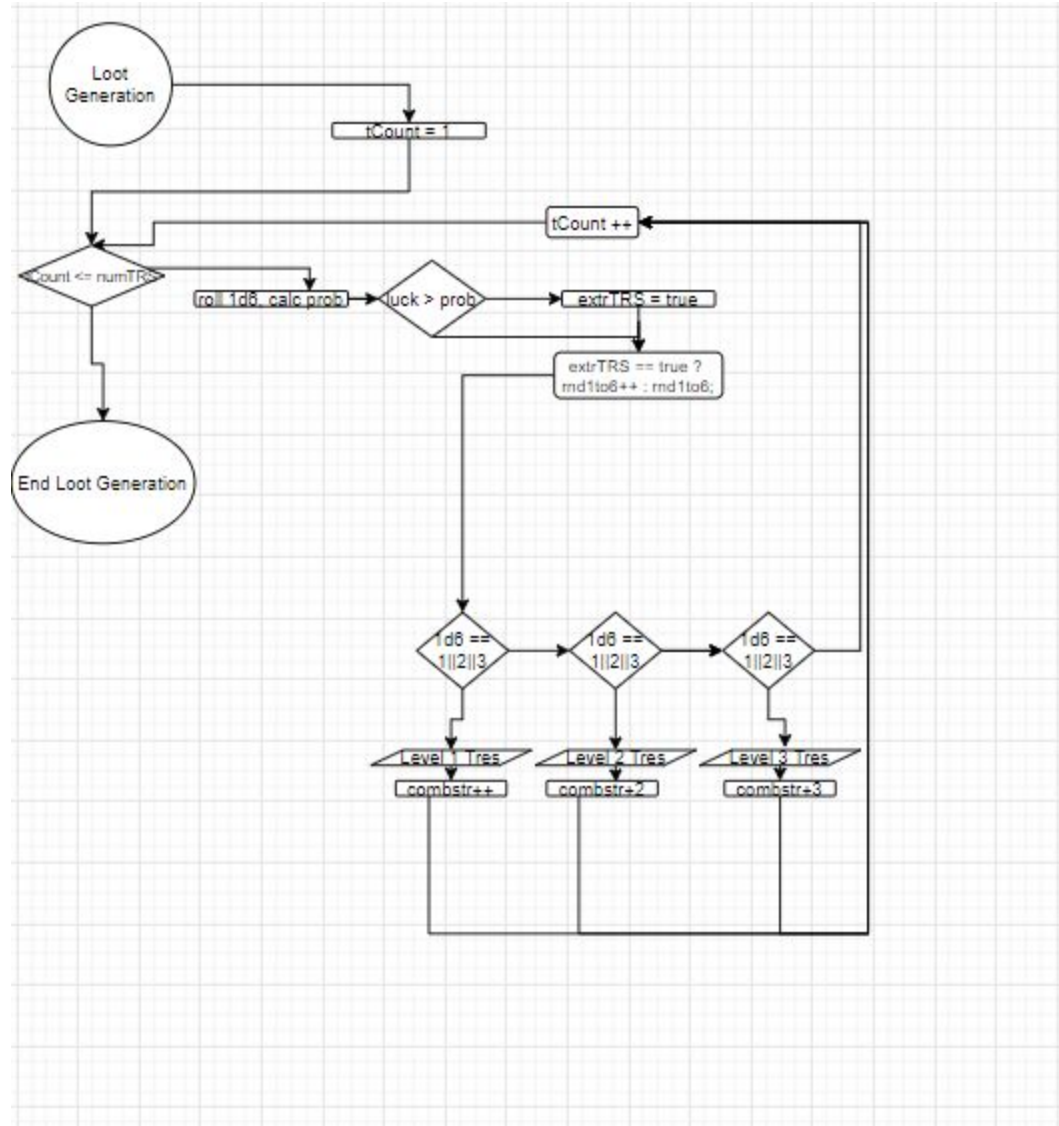
## FlowChart











## Pseudo Code

```
Main{
    Initialize Variables
    Open Info.txt file
    if(file returns null){
        Return error message}
    Do{
        While not playing and running{
            Display welcome message and options
            menu(1): Play game
                If character not made, return to menu
                If character made confirm input and play
            menu(2): Set game to create character
            menu(3): Read out info file
            menu(4); Quit game, use confirmation
            if(to create character){
                Input name as 3 Chars
                Turn to String
                Use confirm loop on name
                Establish character sex
                Use confirm loop on sex
                Initialize class and race
            }
        }
        While playing and running{
            Display Game Menu Message
            Display Options
            Option(1): Kick down the door
                Generate Monster with respective treasure
                Give Choice to run/fight
                    If fight, compare power
                        If greater or equal, win lvlup, give treasure
                        If lower, loose level
                    If run, roll 1d6
                        If 6, run away
                        If other, loose level
            Option(2): Quit Game
                Returns to main menu
        }
    }
    While(running)
    Return 0;
```



## Major Variables

Type	Variable Name	Description	Location(Declaration)
<b>Int</b>	<b>Combstr</b>	Shows the strength of the player	<b>48</b>
	<b>lvl</b>	The level and win condition	<b>48</b>
	<b>monSTR</b>	Shows the strength of the monster	<b>55</b>
	<b>numTRS</b>	The number of treasures rewarded	<b>56</b>
	<b>rnd1to3</b>	Value of random int between 1 and 3	<b>57</b>
	<b>rnd1to6</b>	Value of random int between 1 and 6	<b>58</b>
	<b>rnd1toH</b>	Value of random int between 1 and 100	<b>59</b>
	<b>tresRew</b>		<b>60</b>
	<b>rounds</b>	Counts number of rounds to win	<b>61</b>
<b>Char</b>	<b>name1</b>	Names first character	<b>52</b>
	<b>name2</b>	Names second character	<b>52</b>
	<b>name3</b>	Names third character	<b>52</b>
	<b>cPlyrIn</b>	Player input with character	<b>65</b>
	<b>sex</b>	Player sex as character	<b>49</b>
	<b>chaClass</b>	Player class as character	<b>49</b>
	<b>race</b>	Player race as character	<b>49</b>
<b>String</b>	<b>nameCom</b>	Combination of all name char to string	<b>53</b>
<b>Float</b>	<b>prob</b>		<b>62</b>
	<b>luck</b>	Player luck, chance to get extra treasure	<b>50</b>
<b>Bool</b>	<b>extrTRS</b>	If player got extra treasure	<b>63</b>

	<b>chrMade</b>	If character was made	<b>68</b>
	<b>playable</b>	If game is playable	<b>69</b>
	<b>quit</b>	If player wants to quit	<b>70</b>
	<b>running</b>	If game is running	<b>71</b>
	<b>playing</b>	If user is playing	<b>69</b>
	<b>rightIn</b>	If input is right	<b>72</b>
<b>ifstream</b>	<b>infFile</b>	File containing munchkin info	<b>73</b>

## C++ Concepts

Chapter	New syntax and keywords	First Location (Line/Line used)
2	cout	84
	libraries	26
	variables	48
	Identifiers	48
	Integers	48
	Characters	52
	Strings	53
	Floats	50
	Bools	63
	Sizeof	*****
	Variables <= 7 char	48-73(All variable declarations)
	scope	*****
	Arithmetic Operators	232
	Comments	36
	Named Constants	50
	Programing Style	*****
3	cin	88
	Math Expression	221
	Mixing data types	*****
	Overflow/underflow	*****
	Type casting	236
	Multiple assignment	152

	<b>Formatting output</b>	84
	<b>Strings</b>	127
	<b>Math library</b>	221
	<b>Hand tracing</b>	*****
<b>4</b>	<b>Relational Operators</b>	215
	<b>If</b>	222
	<b>if-else</b>	92&&103
	<b>Nesting</b>	258
	<b>if-else-if</b>	124&&161
	<b>Flags</b>	289
	<b>Logical operators</b>	82
	<b>Validating user input</b>	161-169
	<b>Conditional Operator</b>	238
	<b>Switch</b>	96
<b>5</b>	<b>Increment/Decrement</b>	214
	<b>While</b>	132
	<b>Do-while</b>	80-298
	<b>For Loop</b>	219
	<b>Files input/output both</b>	75
	<b>No breaks in loops</b>	*****

## Reference

1. Text Book
2. C++ Library Documentations
3. Provided Class Lab examples
  - a. Shoot-Out Lab

## Example Inputs and Outputs

```

Welcome to Munchkin, the dungeon crawling 'card' game!

1. Play Game      2. Create Character      3. Info      4. Quit
2

What is your name? Use only 3 letters: IAN
Your name is IAN?
Y/N :      N
What is your name? Use only 3 characters:ian
Your name is ian?
Y/N :      N
What is your name? Use only 3 characters:l4N
Your name is l4N?
Y/N :      Y
Is your character Male or Female?
M/F :      M
```

```

Welcome to Munchkin, the dungeon crawling 'card' game!

1. Play Game      2. Create Character      3. Info      4. Quit
1

Are you sure you want to start the game?
1. Yes      2. No
2

Welcome to Munchkin, the dungeon crawling 'card' game!
```

Welcome to Munchkin, the dungeon crawling 'card' game!

1. Play Game      2. Create Character      3. Info      4. Quit  
3

\*\*\*\*\*

In Munchkin, you're a fantasy hero kicking down doors in a dungeon, looking for monsters to bash and Treasures to grab.  
You level up each time you kill a monster.  
Reach Level 10, and you win!  
But watch out - other players might stab you in the back at any moment!

On your turn, you kick down the door by drawing and revealing the top Door card.  
Compare your Level and bonuses against the monster; if your total is bigger or equal, you win!  
The fight isn't over until you decide to Run Away.

\*\*\*\*\*

Welcome to Munchkin, the dungeon crawling 'card' game!

1. Play Game      2. Create Character      3. Info      4. Quit

1

Are you sure you want to start the game?

1. Yes      2. No

1

GAME START

Game in Progress, Reach Level 10 or Quit

14N Level: 1

1. Kick down the door      2. Quit Game

1

Monster is a strength level of : 1

You are a strength level of : 1

Would you like to fight or run away?

1. Fight 2. Run

1

That was close! Level UP!

Here is some treasure!

You got some new gear! + 2 to your fighting level!

Game in Progress, Reach Level 10 or Quit

14N Level: 2

1. Kick down the door      2. Quit Game

1

Monster is a strength level of : 10

You are a strength level of : 3

Would you like to fight or run away?

1. Fight 2. Run

2

You ran away!

Game in Progress, Reach Level 10 or Quit

14N Level: 2

## Program

```
/*
 * File:  main.cpp
 * Author: Ian Langley
 *
 * This version of Munchkin will only have the main menu, allowing for the installation of the
game play loop later on.
 * Munchkin is card game in which players race to level 10 by battling monsters in the dungeon.
Each turn, a player can
 * "Kick down the door" revealing a monster, curse, or buff card. The players then compare a
numerical value related to them
 * to the monster's level, and if they are higher, they win. In traditional munchkin there are ways
to manipulate other players
 * such as adding bonuses to monster, or helping in the fight for money. This version of
munchkin will demonstrate the core
 * game play loop with a single player, working essentially as a race against time.
 *
 * Created on February 3, 2020, 11:03 AM
 */
/*
 * Future Tasks:
 * 1. Create a 2D array to generate a large quantity of monsters;
 * 2. Create a 2D array for equipment;
 * 3. Port all loops to Void Functions
 * 4. Add multiple players;
 */

//Muchkin Game

//Included Libraries
#include <cstdlib>
#include <iostream>
#include <iomanip>
#include <cmath>
#include <cstdlib>
#include <fstream>
#include <string>
```



```

#include <ctime>
//Global Variables

//Created Functions *****THESE NEED TO BE UPDATED: DO NOT USE YET(FEB 5
2020)
void mainMenu(bool& playing, bool& playable, bool& quit, bool& chrSel);
void quitCon(bool& quit, bool& running);
void chrCreat(char& sex, char& chaClass, char& race, bool& playable, bool& chrSel, char&
name1, char& name2, char& name3);
void kickDTD(int& plyrIn, int& combstr, bool& playing, char& name1, char& name2, char&
name3, int& lvl, float& luck);
int genTRES(float luck);
using namespace std;

int main(int argc, char** argv)
{
    srand(static_cast<unsigned int> (time(0)));
    //Player Character Variables
    int combstr, lvl = 1;
    char sex, chaClass, race;
    const float luck = 1.0f / 10.0f;
    bool alive;
    char name1, name2, name3;
    string nameCom("");
    //Game System Variables
    int monSTR,
        numTRS,
        rnd1to3,
        rnd1to6,
        rnd1toH,
        tresRew,
        rounds = 1;
    float prob;
    bool extrTRS = false;
    //Menu Variables
    char cPlyrIn;
    string infStr;
    int plyrIn;
    bool chrMade = false,

```

```

    playable = false, playing = false,
    quit = false, chrSel = false,
    running = true,
    rightIn = false;
ifstream infFile;

infFile.open("infoFile.txt");
if (!infFile) {
    cout << "Error opening file. \n";
}
//Game running
do {
    //Main
Menu*****
*****

    while (playing == false && running == true) {
        //Main Menu
Display*****
*****

        cout << setw(65) << endl << endl << "Welcome to Munchkin, the dungeon crawling
'card' game!" << setw(25) << " " << endl;
        cout << endl << endl << endl << endl << endl;
        cout << setw(25) << "1. Play Game " << setw(25) << " 2. Create Character" << setw(25)
<< "3. Info"
        << setw(15) << "4. Quit" << endl;
        cin >> plyrIn;
        cout << endl;
        switch (plyrIn) {
            // Starts the gamplay loop
            case 1:
                if (playable == true) {
                    cout << "Are you sure you want to start the game?" << endl;
                    cout << setw(10) << "1. Yes" << setw(10) << "2. No" << endl;
                    cin >> plyrIn;
                    //Validates input, allows for cancelation.
                    switch (plyrIn) {
                        case 1:cout << "GAME START";
                            playing = true;
                            break;

```

```

        case 2: break;
    }
}
else {
    cout << "You have yet to make a character! Go to character creation to start!" <<
endl;
}
break;
// Sets loop to include character creation
case 2: chrSel = true;
break;
//Reads out information on Munchkin
case 3:
    if (infFile.is_open() == false) {
        infFile.open("infoFile.txt");
    }
    if (infFile.is_open()) {
        while (getline(infFile, infStr)) {
            cout << infStr << endl;
        }
        infFile.close();
    }
    break;
//Sets game to quit state, results in quit confirmation
case 4: quit = true;
break;
}
//Char Creation

```

\*\*\*\*\*

\*\*\*\*\*

```

if (chrSel == true) {
    cout << "What is your name? Use only 3 letters: ";
    cin >> name1 >> name2 >> name3;
    nameCom += name1;
    nameCom += name2;
    nameCom += name3;
    cout << "Your name is " << nameCom << "?" << endl << "Y/N :  ";
    cin >> cPlyrIn;
    while (cPlyrIn == 'N' || cPlyrIn == 'n') {

```

```

        cout << "What is your name? Use only 3 characters:";
        cin >> name1 >> name2 >> name3;
        nameCom = "";
        nameCom += name1;
        nameCom += name2;
        nameCom += name3;
        cout << "Your name is " << nameCom << "?" << endl << "Y/N :  ";
        cin >> cPlyrIn;
    }
    do {
        cout << "Is your character Male or Female?" << endl;
        cout << "M/F :  ";
        cin >> cPlyrIn;

        if (cPlyrIn == 'M' || cPlyrIn == 'm' || cPlyrIn == 'F' || cPlyrIn == 'f') {
            rightIn = true;
        }
    }
    while (rightIn == false);
    combstr = lvl = 1;
    sex = cPlyrIn;
    chaClass = 'D';
    race = 'H';
    playable = true;
    chrSel = false;
    //Quit
Game*****
*****

        quitCon(quit, running);
    }
    //Quit Confirmation
    else if (quit == true) {
        cout << "Are you sure you want to quit?";
        cout << setw(10) << "1. Yes" << setw(10) << "2. No" << endl;
        cin >> plyrIn;
        if (plyrIn == 1) {
            running = false;
        }
        else {

```

```

        quit = false;
    }
}
}
//Game
Playing*****
*****

while (playing == true) {
    cout << endl << endl << setw(25) << "Game in Progress, Reach Level 10 or Quit" <<
endl;
    cout << nameCom << " Level: " << lvl << endl;
    cout << endl;
    cout << endl;
    cout << endl;
    cout << setw(25) << "1. Kick down the door" << setw(25) << "2. Quit Game" << endl;
    cin >> plyrIn;
    switch (plyrIn) {
    case 1: //Generate Monster
        rnd1to3 = rand() % 3 + 1;
        if (rnd1to3 == 1) {
            monSTR = 1;
            numTRS = 1;
        }
        else if (rnd1to3 == 2) {
            monSTR = 5;
            numTRS = 2;
        }
        else if (rnd1to3 == 3) {
            monSTR = 10;
            numTRS = 3;
        }
        //Display Monster Level
        cout << "Monster is a strength level of : " << monSTR << endl;
        //Display player combat power
        cout << "You are a strength level of : " << combstr << endl;
        //Give option to run or fight;
        cout << "Would you like to fight or run away?" << endl << "1. Fight 2. Run" << endl;
        cin >> plyrIn;
        cout << endl;

```

```

switch (plyrIn) {
    //Fight monster
case 1:
    //Monster Stronger
    if (monSTR > combstr) {
        //Nullify low level punishment
        if (lvl = 1) {
            cout << "You are too low level for bad stuff to happen!";
        }
        //Allows or punishment over level 1
        if (lvl > 1) {
            cout << "BAD STUFF HAPPENS" << endl;
            cout << "You lost a level!";
            lvl--;
        }
    }
    //Player Stronger
    if (monSTR < combstr) {
        cout << "You beat them! Level UP!" << endl << "Here is some treasure!" <<
endl;

        //Generates treasure based on rolled monster
        for (int tCount = 1; tCount <= numTRS; tCount++) {
            //Random luck +1 treasure. Adds a touch of variety
            rnd1to6 = rand() % 6 + 1;
            prob = 1.0f * static_cast<int>(rand()) / (pow(2, 31) - 1);
            if (luck > prob) {
                extrTRS = true;
            }
            extrTRS == true ? rnd1to6++ : rnd1to6;
            //Three gear tiers. Allows for additional rewards later.
            if (rnd1to6 == 1 || rnd1to6 == 2 || rnd1to6 == 3) {
                cout << " You got some new gear! + 1 to your fighting level!" << endl;
                combstr += 1;
            }
            if (rnd1to6 == 4 || rnd1to6 == 5) {
                cout << " You got some new gear! + 2 to your fighting level!" << endl;
                combstr += 2;
            }
            if (rnd1to6 > 5) {

```

```

        cout << " You got some new gear! + 3 to your fighting level!" << endl;
        combstr += 3;
    }
}
lvl++;
}
//Equal Strength
if (monSTR == combstr) {
    cout << "That was close! Level UP!" << endl << "Here is some treasure!" <<
endl;

    for (int tCount = 1; tCount <= numTRS; tCount++) {
        //Random luck +1 treasure. Adds a touch of variety
        rnd1to6 = rand() % 6 + 1;
        prob = 1.0f * rand() / (pow(2, 31) - 1);
        if (luck > prob) {
            extrTRS = true;
        }
        extrTRS == true ? rnd1to6++ : rnd1to6;
        //Random luck +1 treasure. Adds a touch of variety
        if (rnd1to6 == 1 || rnd1to6 == 2 || rnd1to6 == 3) {
            cout << " You got some new gear! + 1 to your fighting level!" << endl;
            combstr += 1;
        }
        if (rnd1to6 == 4 || rnd1to6 == 5) {
            cout << " You got some new gear! + 2 to your fighting level!" << endl;
            combstr += 2;
        }
        if (rnd1to6 > 5) {
            cout << " You got some new gear! + 3 to your fighting level!" << endl;
            combstr += 3;
        }
    }
    lvl++;
}
break;
//Running away
case 2:
    //Rolling a 1d6
    rnd1to6 = rand() % 6 + 1;

```

```

//Successful Run
if (rnd1to6 == 6) {
    cout << "You ran away!" << endl;
}
//Unsuccessful run
if (rnd1to6 != 6) {
    //Low level punishment nullification;
    if (lvl == 1) {
        cout << "You are too low level for bad stuff to happen!";
    }
    //Punishment over level 1
    if (lvl > 1) {
        cout << "You were caught! BAD STUFF HAPPENS" << endl;
        cout << "You lost a level!";
        lvl--;
    }
}
break;
}
break;
//Playing quit button
case 2: playing = false;
    break;
}
//Increasing round counter
rounds++;
//Win condition checker
if (lvl == 10) {
    cout << setfill('*') << setw(50) << endl << endl;
    cout << "You won the game!";
    cout << "It took " << rounds << " rounds!";
    playing = false;
    cout << setfill('*') << setw(50) << endl << endl;
    setfill(' ');
}
}
}
while (running == true);
return 0;

```



```

}
//9 Lines of comments

void mainMenu(bool& playing, bool& playable, bool& quit, bool& chrSel)
{
    bool chrMade;
    int plyrIn;
    cout << setw(75) << endl << endl << "Welcome to Munchkin, the dungeon crawling 'card'
game!" << endl;
    cout << endl << endl << endl << endl << endl;
    cout << setw(25) << "1. Play Game " << setw(25) << " 2. Create Character" << setw(25) <<
"3. Quit" << endl;
    cin >> plyrIn;
    switch (plyrIn) {
    case 1:
        if (playable == true) {
            cout << "Are you sure you want to start the game?" << endl;
            cout << setw(10) << "1. Yes" << setw(10) << "2. No" << endl;
            cin >> plyrIn;
            switch (plyrIn) {
            case 1: cout << "GAME START";
                playing = true;
                break;
            case 2: break;
            }
        }
        else {
            cout << "You have yet to make a character! Go to character creation to start!" << endl;
        }
        break;
    case 2: chrSel = true;
        break;
    case 3: quit = true;
        break;
    }
}

```

```

void chrCreat(char& sex, char& chaClass, char& race, bool& playable, bool& chrSel, char&
name1, char& name2, char& name3)

```

```

{
    char cPlyrIn;
    bool rightIn = false;
    cout << "What is your name? Use only 3 letters: ";
    cin >> name1 >> name2 >> name3;
    cout << "Your name is " << name1 << name2 << name3 << "? y/n";
    cin >> cPlyrIn;
    while (cPlyrIn == 'N' || cPlyrIn == 'n') {
        cout << "What is your name? Use only 3 characters:";
        cin >> name1 >> name2 >> name3;
        cout << "Your name is " << name1 << name2 << name3 << "? y/n";
        cin >> cPlyrIn;
    }
    do {
        cout << "Is your character Male or Female?" << endl;
        cout << "M/F :   ";
        cin >> cPlyrIn;

        if (cPlyrIn == 'M' || cPlyrIn == 'm' || cPlyrIn == 'F' || cPlyrIn == 'f') {
            rightIn = true;
        }
    }
    while (rightIn == false);
    sex = cPlyrIn;
    chaClass = 'D';
    race = 'H';
    playable = true;
    chrSel = false;
}

```

```

void quitCon(bool& quit, bool& running)

```

```

{
    int plyrIn;
    if (quit == true) {
        cout << "Are you sure you want to quit?";
        cout << setw(10) << "1. Yes" << setw(10) << "2. No" << endl;
        cin >> plyrIn;
        if (plyrIn == 1) {
            running = false;
        }
    }
}

```

```

    }
    else {
        quit = false;
    }
}
}

```

```

void kickDTD(int& plyrIn, int& combstr, bool& playing, char& name1, char& name2, char&
name3, int& lvl, float& luck)

```

```

{
    srand(static_cast<unsigned int> (time(0)));
    int monSTR,
        numTRS;
    int rnd1to3;
    int rnd1to6;
    cout << setw(25) << "Game in Progress, Reach Level 10 or Quit" << endl;
    cout << name1 << name2 << name3 << " Level: " << lvl << endl;
    cout << endl;
    cout << endl;
    cout << endl;
    cout << setw(25) << "1. Kick down the door" << setw(25) << "2. Quit Game" << endl;
    cin >> plyrIn;
    switch (plyrIn) {
    case 1: //Generate Monster
        rnd1to3 = rand() % 3 + 1;
        if (rnd1to3 == 1) {
            monSTR = 1;
            numTRS = 1;
        }
        else if (rnd1to3 == 2) {
            monSTR = 5;
            numTRS = 2;
        }
        else if (rnd1to3 == 3) {
            monSTR = 10;
            numTRS = 3;
        }
        //Display Monster Level
        cout << "Monster is a strength level of : " << monSTR << endl;
    }
}

```

```

//Display player combat power
cout << "You are a strength level of : " << combstr << endl;
//Give option to run or fight;
cout << "Would you like to fight or run away?" << endl << "1. Fight 2. Run" << endl;
cin >> plyrIn;
switch (plyrIn) {
case 1:
    if (monSTR > combstr) {
        cout << "BAD STUFF HAPPENS" << endl;
    }
    if (monSTR == combstr) {
        cout << "That was close!" << endl << "Here is some treasure!" << endl;
        for (int tCount = 1; tCount == numTRS; tCount++) {
            genTRES(luck);
        }
    }
    if (monSTR < combstr) {
        cout << "You beat them!" << endl << "Here is some treasure!" << endl;
        for (int tCount = 1; tCount = numTRS; tCount++) {
            genTRES(luck);
        }
    }
    break;
case 2:
    rnd1to6 = rand() % 6 + 1;
    if (rnd1to6 == 6) {
        cout << "You ran away!" << endl;
    }
    if (rnd1to6 != 6) {
        cout << "You were caught! BAD STUFF HAPPENS";
    }
    break;
}
break;
case 2: playing = false;
break;
}

```

```
}
```

```
int genTRES(float luck)
```

```
{
```

```
    bool extrTRS = false;
```

```
    float prob;
```

```
    int tresRew;
```

```
    int rnd1to6;
```

```
    int rnd1toH;
```

```
    srand(static_cast<unsigned int> (time(0)));
```

```
    //generate number, higher being better
```

```
    rnd1to6 = rand() % 6 + 1;
```

```
    prob = 1.0f * rand() / (pow(2, 31) - 1);
```

```
    if (luck > prob) {
```

```
        extrTRS = true;
```

```
    }
```

```
    extrTRS == true ? rnd1to6++ : rnd1to6;
```

```
    if (rnd1to6 == 1 || rnd1to6 == 2 || rnd1to6 == 3) {
```

```
        cout << " You got some new gear! + 1 to your fighting level!" << endl;
```

```
    }
```

```
    if (rnd1to6 == 4 || rnd1to6 == 5) {
```

```
        cout << " You got some new gear! + 2 to your fighting level!" << endl;
```

```
    }
```

```
    if (rnd1to6 > 5) {
```

```
        cout << " You got some new gear! + 3 to your fighting level!" << endl;
```

```
    }
```

```
}
```