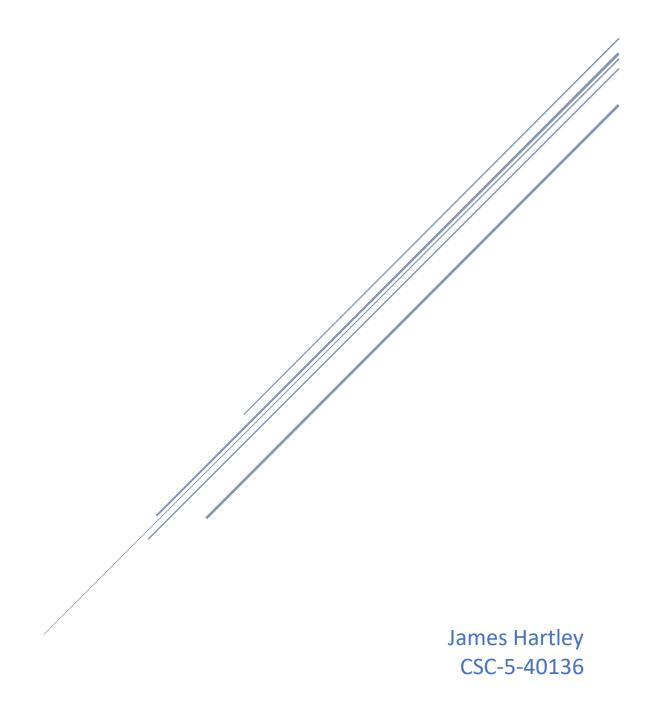
# PROJECT 1

Klondike – The Dice Game



### Introduction

Title: Klondike

This is a gambling game that was played in cheap casinos in frontier America, using five dice. The combinations (or hands) used are similar to Poker but with some omissions.

#### Play:

A banker rolls the dice first and the player then rolls the dice trying to beat the combination first thrown. Only one throw is allowed. Numbers rank high to low as 1, 6, 5, 4, 3, 2. Any die not used in a combination is ignored. If a player rolls a combination equal to the banker's, the banker wins. The payoffs are made by the banker at even odds. i.e. player gets their stake back with an equal amount.

#### Winning combinations:

(In Descending Order)

- Five-of-a-kind
- Four-of-a-kind
- Full House (Three-of-a-kind and a pair)
- Three-of-a-kind
- Two pairs
- One pair

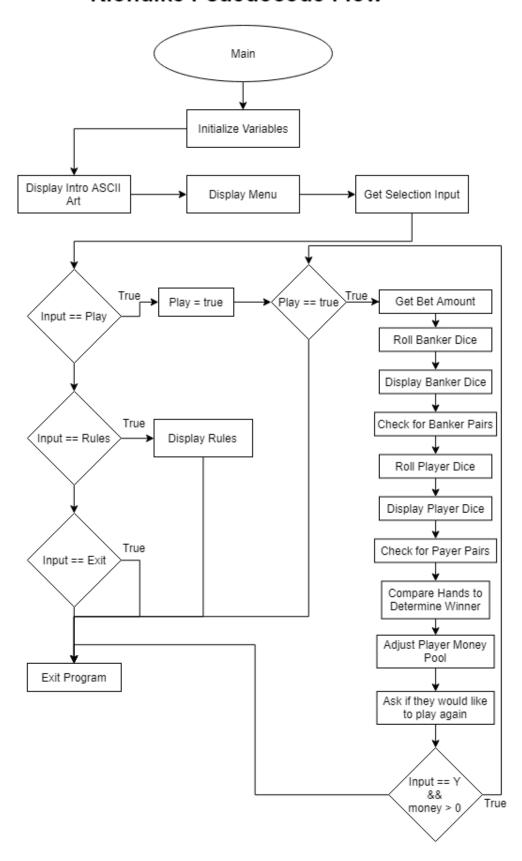
### Summary:

Project Size: 333 Lines Number of Variables: 19

Total Time Spent: ~1.5 Weeks

Project 1 for CSC-5-40136. The object of this project was to create a game emphasizing all that was learned up to this point, including variable types, loops, decision statements, console input/output and file input/output as well as various functions included in various C++ standard libraries such as cmath, iomanip and time, no custom functions were allowed in the development of this application.

### Klondike Psuedocode Flow



## Major Variables

Type	Name	Description	
char	pPairs	How many 1 <sup>st</sup> combination dice	
		the player has.	
	pPairs2	How many 2 <sup>nd</sup> matching dice	
		the player has	
	pValue	Face value of players 1 <sup>st</sup>	
		combination	
	pValue2	Face value of players 2 <sup>nd</sup>	
		combination	
	bPairs	How many 1 <sup>st</sup> combination dice	
		the banker has	
	bPairs2	How many 2 <sup>nd</sup> matching dice	
		the player has	
	bValue	Face value of bankers 1st	
		combination	
	bValue2	Face value of bankers 2 <sup>nd</sup>	
		combination	
	pHand	Total hand value for the player	
	bHand	Total hand value for the banker	
	pDie[4]	This is an array representing the	
		player's dice	
	bDie[4]	This is an array representing the	
		banker's dice	
ifstream	ifs	This is the input file stream,	
		used for reading in the rules	
string	rules	This is a string used with getline	
		to import the rules from	
		rules.dat	
float	money	This is the player's money pool	
		used for better.	
	betAmt	This is the amount the player	
		has bet.	
bool	play	This is set to true while playing	
		the game to keep the main loop	
		going.	

## Screenshots

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****	James Hartley	***		
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		qual to the banker's, the banker wins. The payoffs are made by the banker		
		with an equal amount. Winning combinations in descending order are as		. рта
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***	The Dice Game	***		
***	Ву	***		
****	James Hartley	***		
*****	********	*****		
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R		Rules		
E		Exit		
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