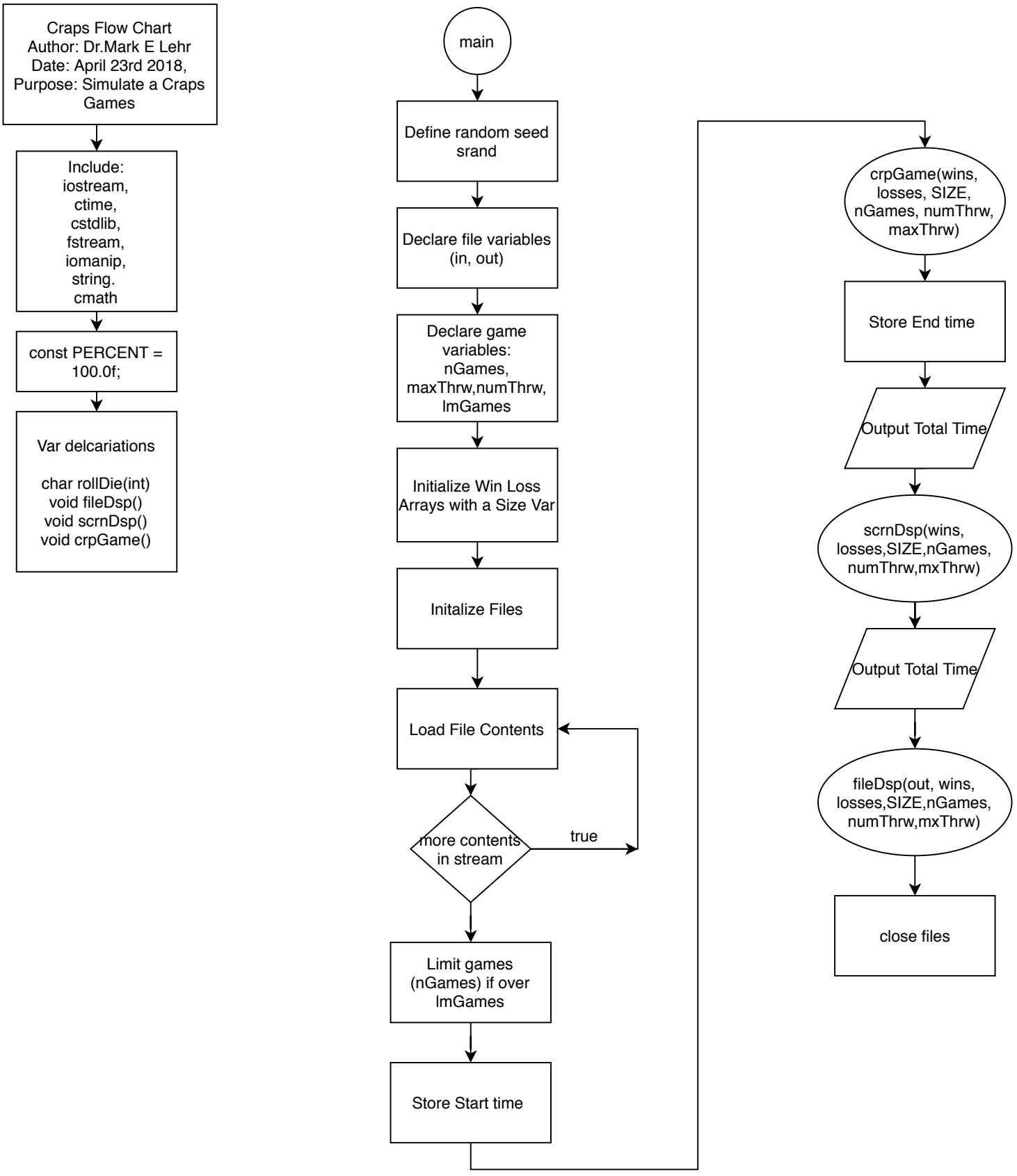
Craps Flow Chart
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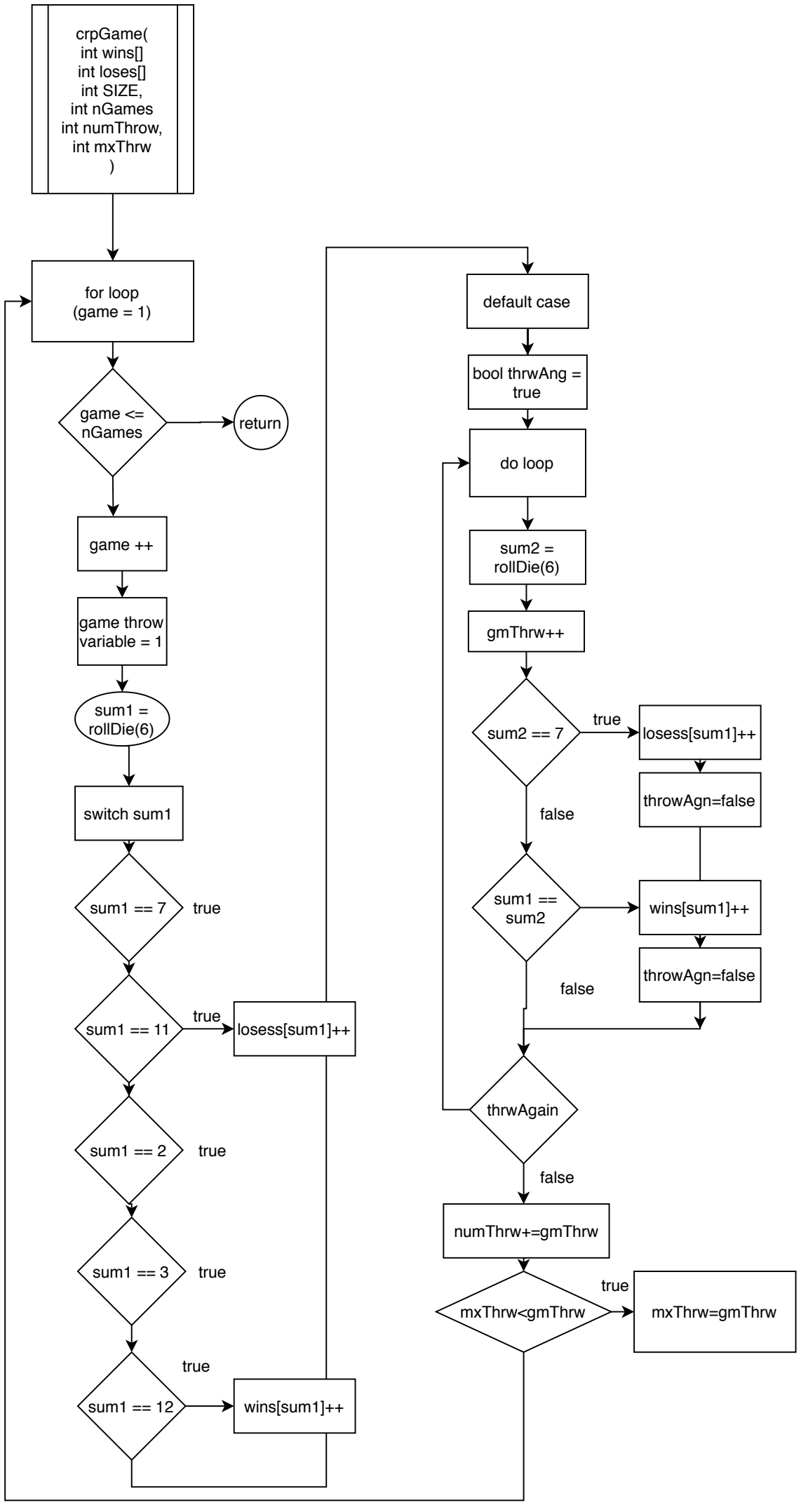
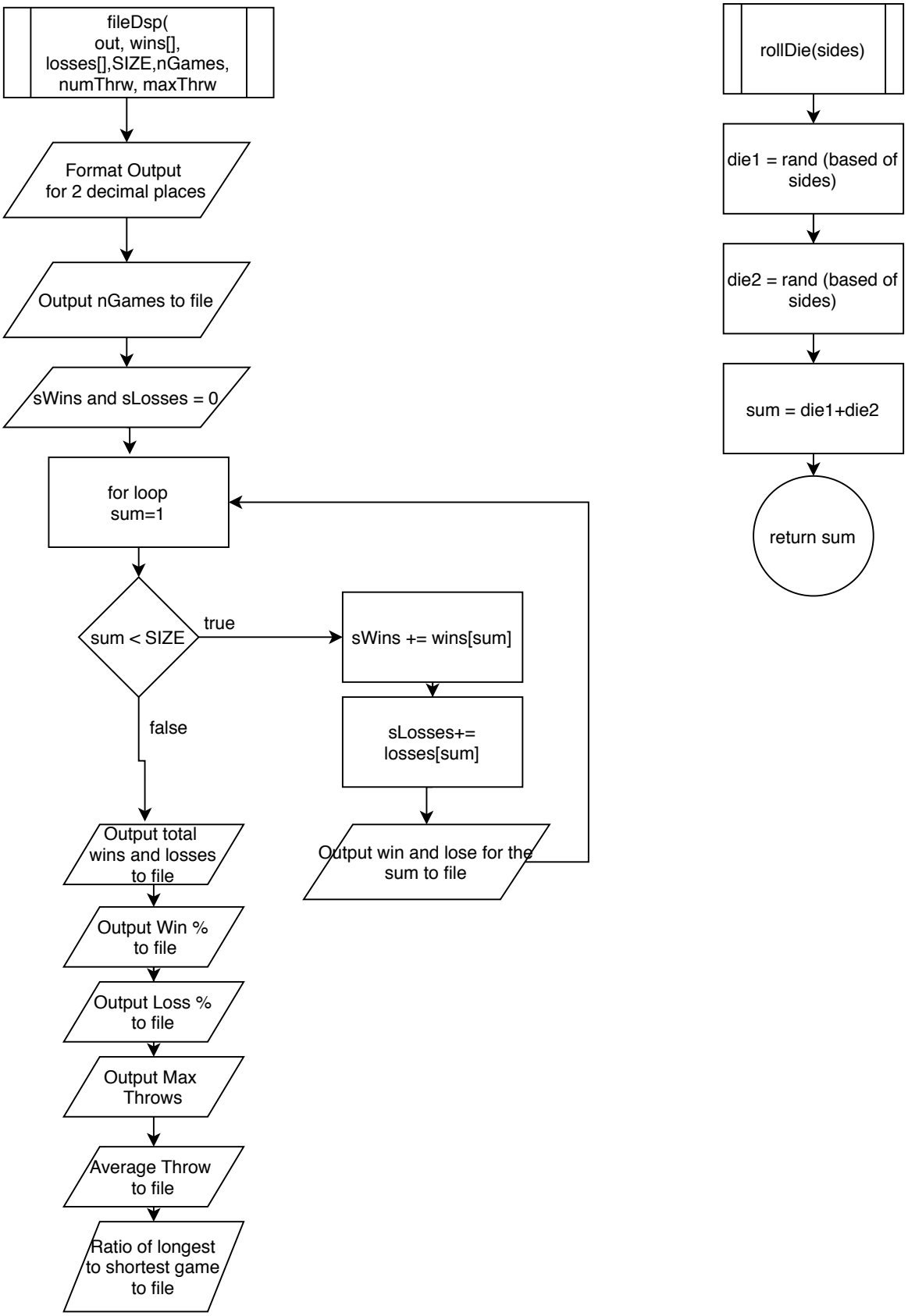
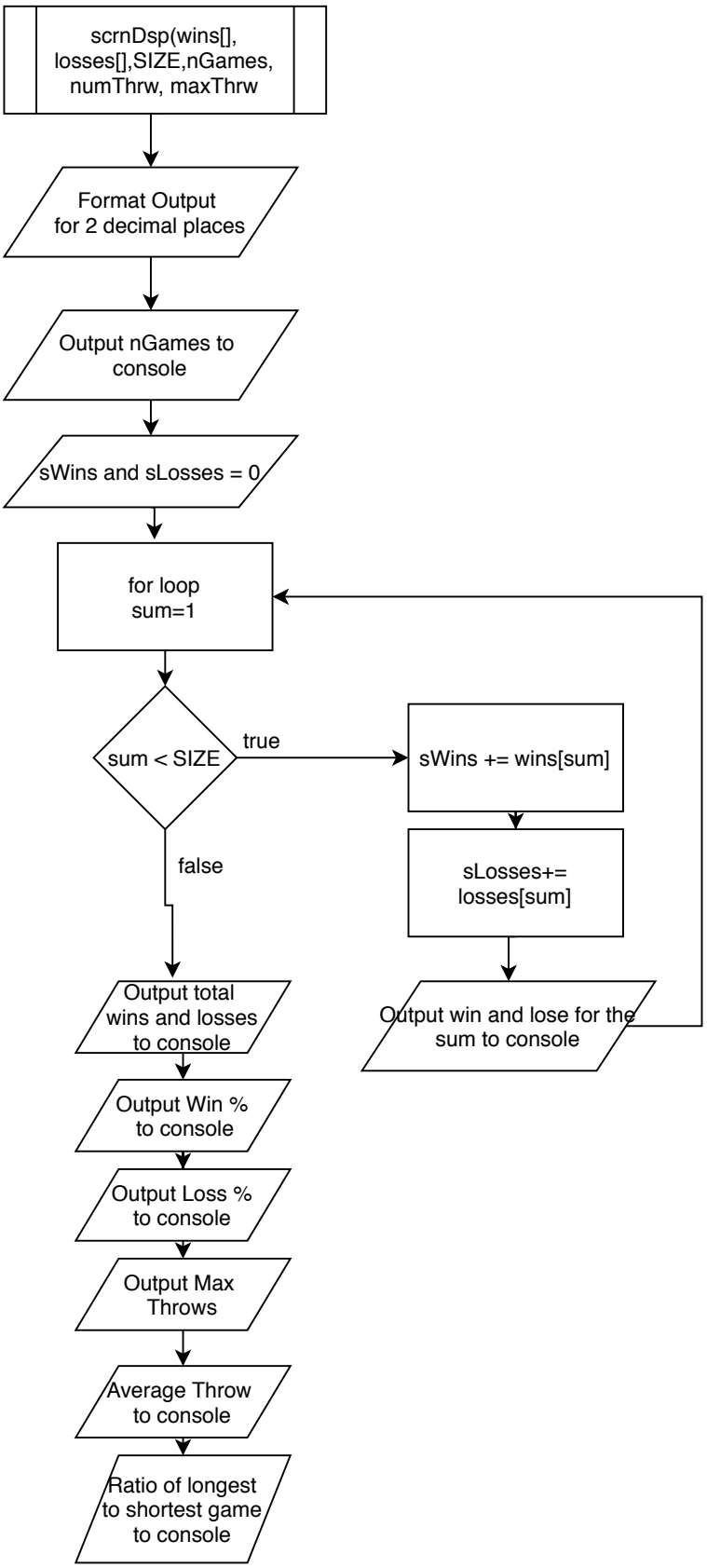
Date: April 23rd 2018,
Purpose: Simulate a Craps Games
Include:
iostream,
ctime,
cstdlib,
fstream,
iomanip,
string.
cmath
const PERCENT = 100.0f;
Var delcariations
char rollDie(int)
void fileDsp()
void scrnDsp()
void crpGame()
main
Define random seed srand
Declare file variables (in, out)
Declare game variables: nGames, maxThrw,numThrw, lmGames
Initialize Win Loss Arrays with a Size Var
Initalize Files
Load File Contents
more contents in stream
true
Limit games (nGames) if over lmGames
Store Start time
crpGame(wins, losses, SIZE, nGames, numThrw, maxThrw)
Store End time
Output Total Time
scrnDsp(wins, losses,SIZE,nGames, numThrw,mxThrw)
Output Total Time
fileDsp(out, wins, losses,SIZE,nGames, numThrw,mxThrw)
close files


crpGame(
int wins[]
int loses[]
int SIZE,
int nGames
int numThrow,
int mxThrw
)
for loop
(game = 1)
game <=
nGames
return
game ++
game throw
variable = 1
sum1 =
rollDie(6)
switch sum1
sum1 == 7
true
sum1 == 11
true
losess[sum1]++
sum1 == 2
true
sum1 == 3
true
sum1 == 12
true
wins[sum1]++
default case
bool thrwAng =
true
do loop
sum2 =
rollDie(6)
gmThrw++
sum2 == 7
true
losess[sum1]++
throwAgn=false
false
sum1 ==
sum2
wins[sum1]++
throwAgn=false
false
thrwAgain
false
numThrw+=gmThrw
mxThrw<gmThrw
true
mxThrw=gmThrw


fileDsp(
out, wins[],
losses[],SIZE,nGames,
numThrw, maxThrw
Format Output
for 2 decimal places
Output nGames to file
sWins and sLosses = 0
for loop
sum=1
sum < SIZE
true
sWins += wins[sum]
sLosses+=
losses[sum]
Output win and lose for the
sum to file
false
Output total
wins and losses
to file
Output Win %
to file
Output Loss %
to file
Output Max
Throws
Average Throw
to file
Ratio of longest
to shortest game
to file
rollDie(sides)
die1 = rand (based of
sides)
die2 = rand (based of
sides)
sum = die1+die2
return sum


scrnDsp(wins[], losses[],SIZE,nGames, numThrw, maxThrw
Format Output for 2 decimal places
Output nGames to console
sWins and sLosses = 0
for loop sum=1
sum < SIZE
true
sWins += wins[sum]
sLosses+= losses[sum]
Output win and lose for the sum to console
false
Output total wins and losses to console
Output Win % to console
Output Loss % to console
Output Max Throws
Average Throw to console
Ratio of longest to shortest game to console

true