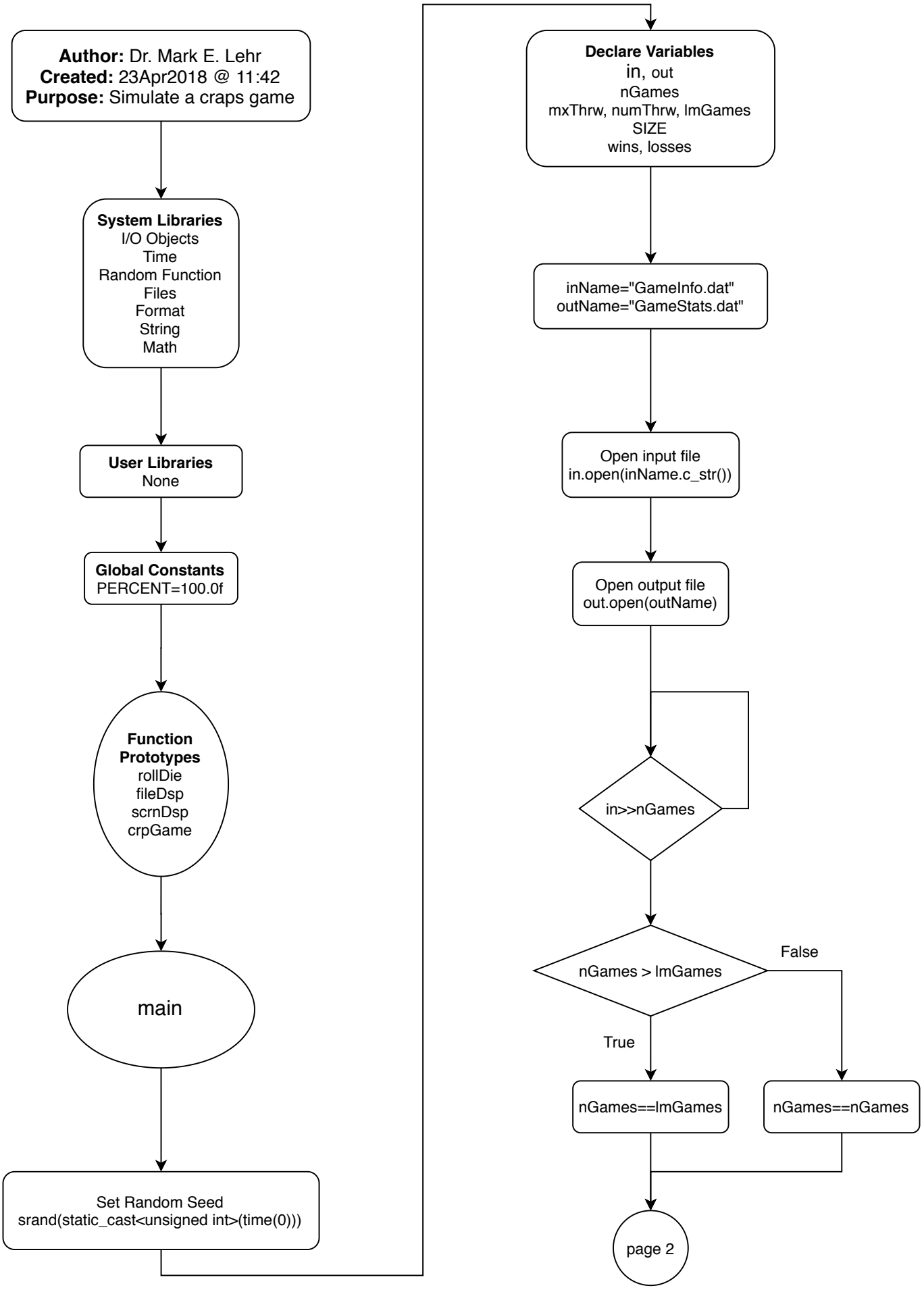
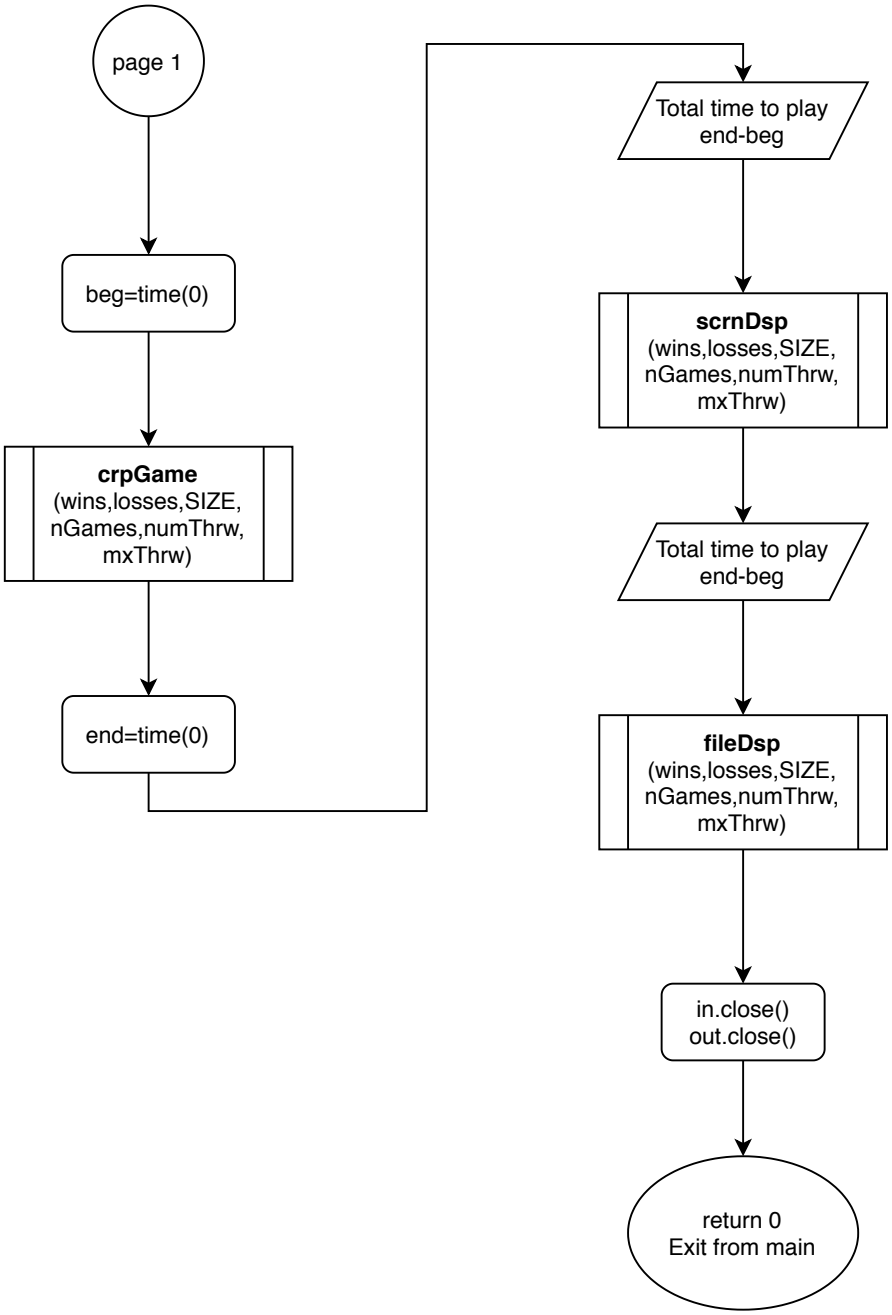
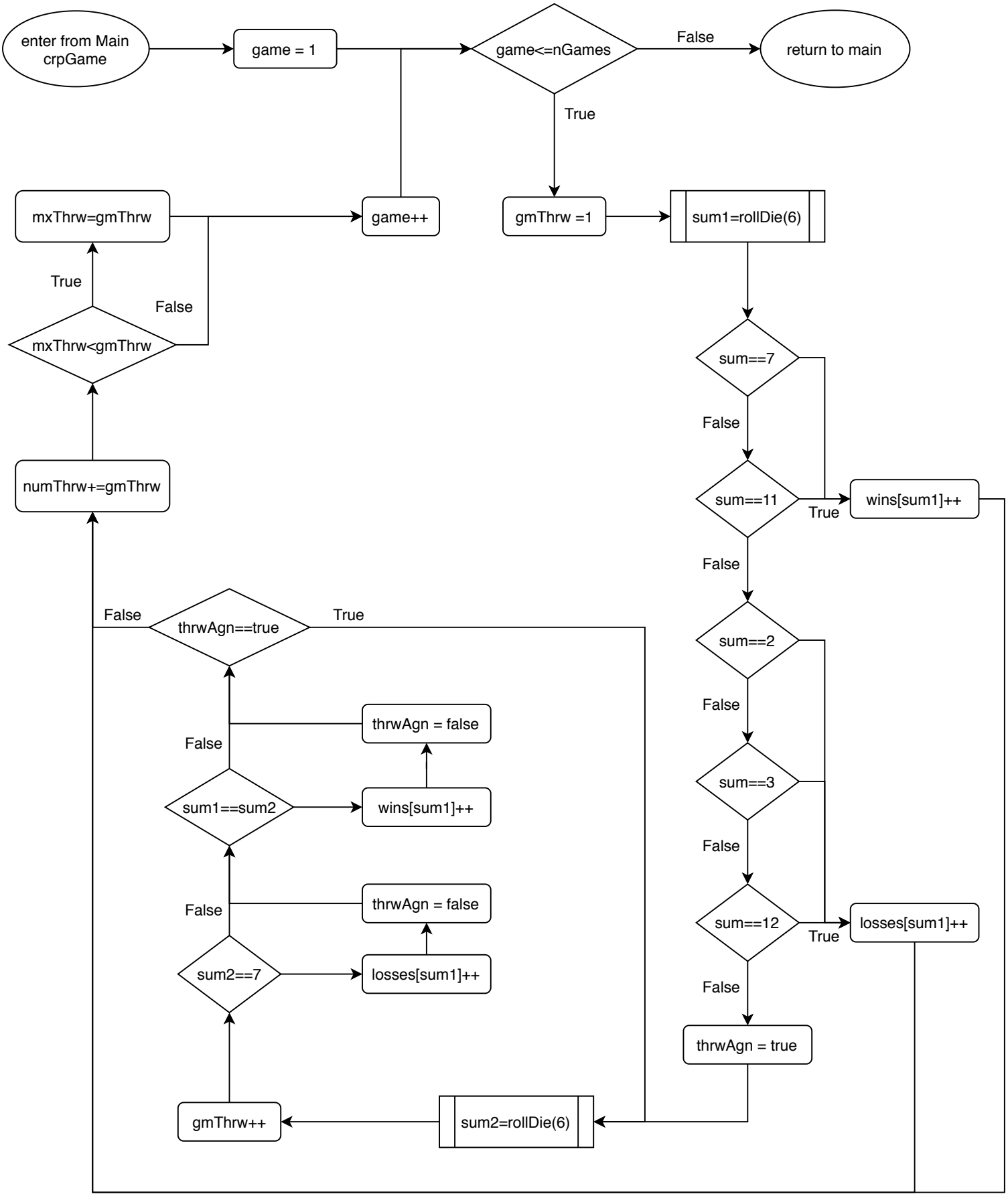
Flowchart Lab - Craps



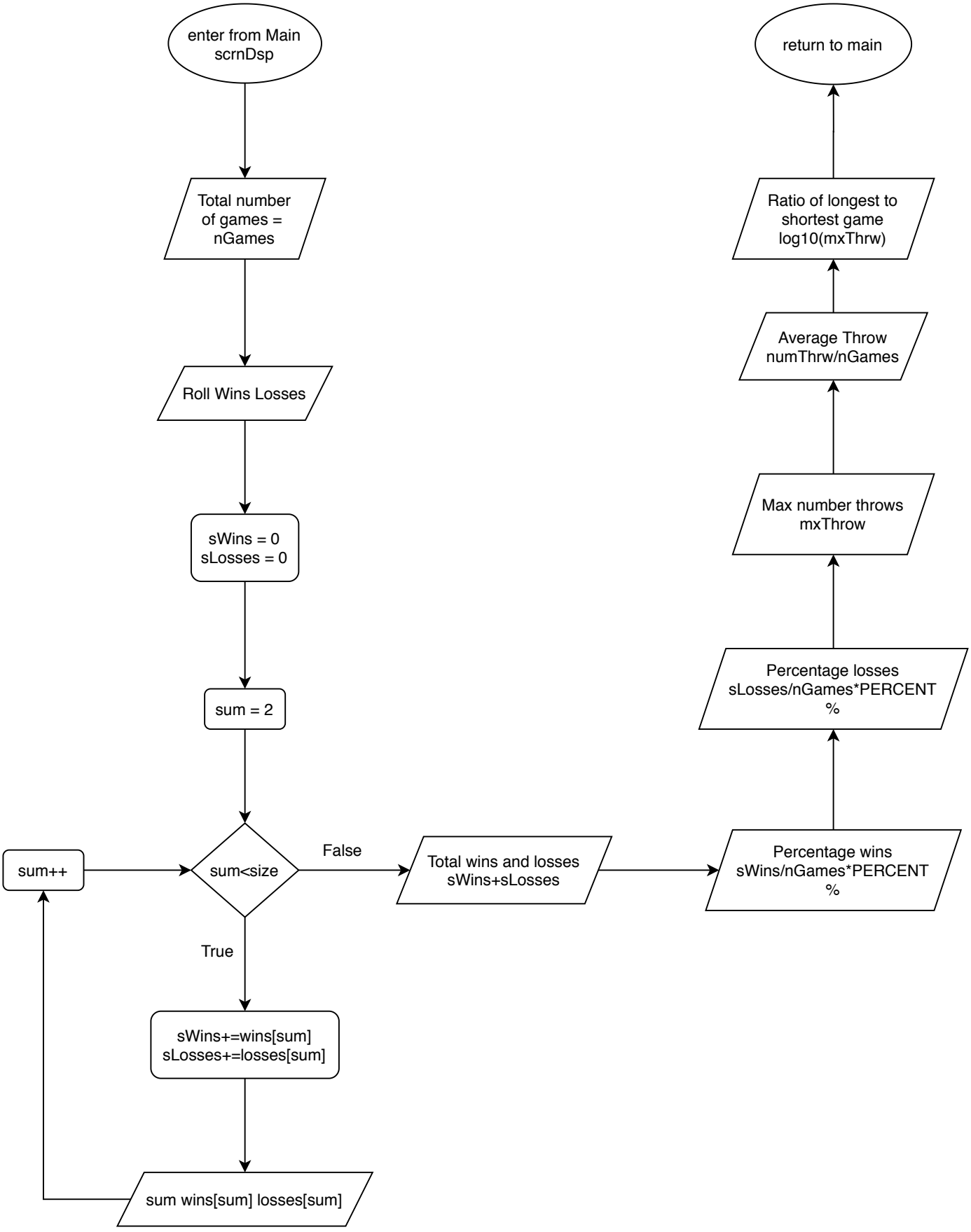
Play the Game and Output Statistics



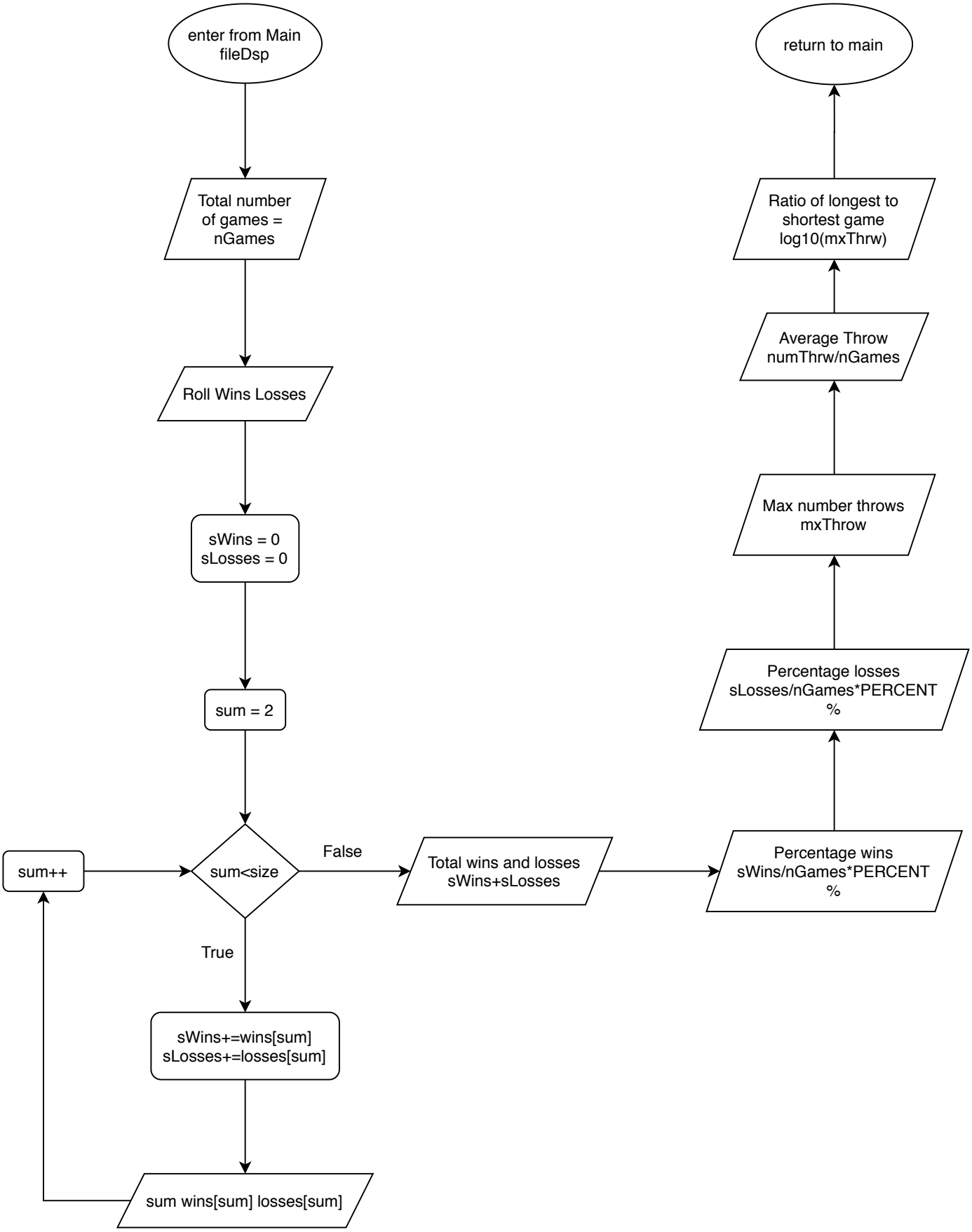
crpGame


enter from Main crpGame
game = 1
game<=nGames
False
return to main
True
mxThrw=gmThrw
game++
gmThrw =1
sum1=rollDie(6)
True
False
mxThrw<gmThrw
sum==7
False
numThrw+=gmThrw
sum==11
True
wins[sum1]++
False
False
thrwAgn==true
True
sum==2
thrwAgn = false
False
False
sum1==sum2
wins[sum1]++
sum==3
False
thrwAgn = false
False
sum==12
True
losses[sum1]++
sum2==7
losses[sum1]++
False
thrwAgn = true
gmThrw++
sum2=rollDie(6)

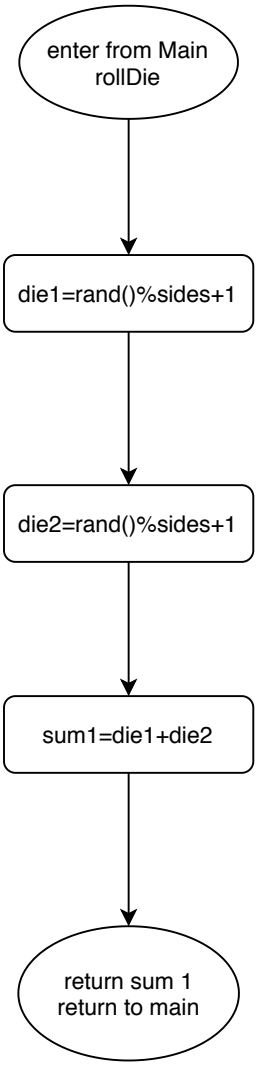
scrnDsp


enter from Main scrnDsp
Total number of games = nGames
Roll Wins Losses
sWins = 0
sLosses = 0
sum = 2
sum<size
False
True
sum++
sWins+=wins[sum]
sLosses+=losses[sum]
sum wins[sum] losses[sum]
Total wins and losses
sWins+sLosses
Percentage wins
sWins/nGames*PERCENT
%
Percentage losses
sLosses/nGames*PERCENT
%
Max number throws
mxThrow
Average Throw
numThrw/nGames
Ratio of longest to shortest game
log10(mxThrw)
return to main

fileDsp


enter from Main fileDsp
Total number of games = nGames
Roll Wins Losses
sWins = 0
sLosses = 0
sum = 2
sum<size
False
True
sum++
sWins+=wins[sum]
sLosses+=losses[sum]
sum wins[sum] losses[sum]
Total wins and losses
sWins+sLosses
Percentage wins
sWins/nGames*PERCENT
%
Percentage losses
sLosses/nGames*PERCENT
%
Max number throws
mxThrow
Average Throw
numThrw/nGames
Ratio of longest to shortest game
log10(mxThrw)
return to main

rollDie


enter from Main
rollDie
die1=rand()%sides+1
die2=rand()%sides+1
sum1=die1+die2
return sum 1
return to main