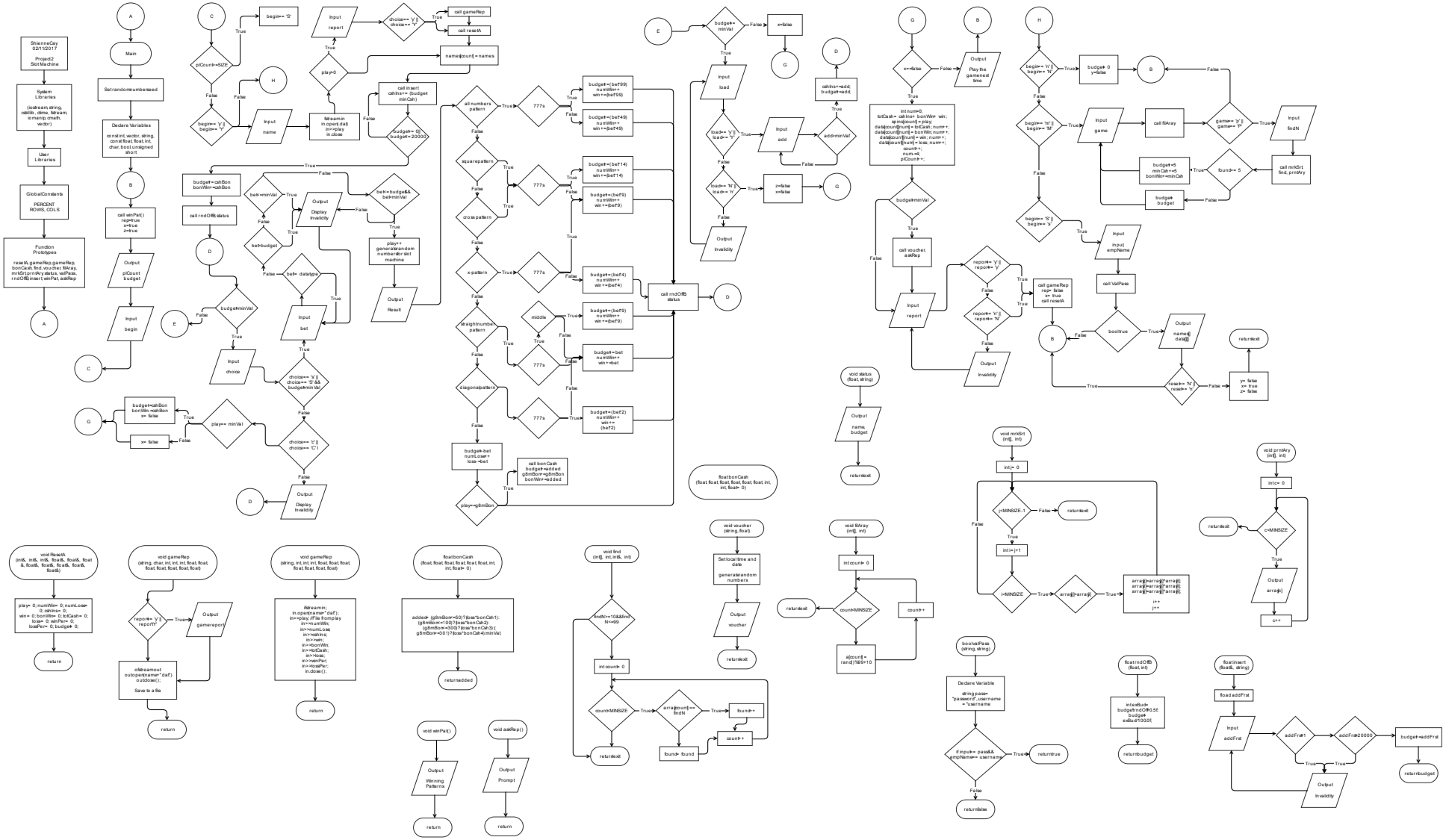
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02/15/2017
Project2
SlotMachine
System Libraries
(iostream, string, cstdlib , ctime, fstream, iomanip, cmath, vector)
User Libraries
GlobalConstants
PERCENT
ROWS, COLS
Function Prototypes
resetA, gameRep, gameRep, bonCash, find, voucher, fiArray, mrkSrt, prnAry, status, winPass, rndOfB, insert, winPat, askRep
Main
Setrandomumberseed
Declare Variables
const int, vector, string, const float, float, int, char, bool, unsigned short
call winPat() rep=true x=true z=true
Output
plCount
budget
Input
begin
Input
report
choice== 'y' || choice== 'Y'
call gameRep
call resetA
name[count] = names
play>0
fstream in;in.open(.dat) in>>play in.close
call insert cshin+= (budget minCah)
budget+= 0; budget+= 2000;
plCount>=SIZE
begin== 'y' || begin== 'Y'
Input
name
budget+=shBon
bonWin+=shBon
call rndOfB() status
budget+=bonWin
bet>minVal
bet>budget
bet> dataType
Output
Display
Invalidity
bet>budget&& bet>minVal
play++ generaterandom numberfor slot machine
Output
Result
budgetminVal
Input
choice
Input
bet
choice== 'y' || choice== 'Y' && budgetminVal
choice== 'c' || choice== 'C'
play== minVal
budget+=shBon bonWin-=shBon x= false
x= false
Output
Display
Invalidity
all numbers pattern
777s
budget+=(bet99) numWin+ win+=(bet99)
budget+=(bet49) numWin+ win+=(bet49)
squarepattern
budget+=(bet14) numWin+ win+=(bet14)
budget+=(bet9) numWin+ win+=(bet9)
crosspattern
x-pattern
budget+=(bet4) numWin+ win+=(bet4)
budget+=(bet9) numWin+ win+=(bet9)
straightnumber pattern
middle
budget+=bet numWin+ win+=bet
diagonalpattern
budget+=(bet2) numWin+ win+= (bet2)
budget+bet numLose+ loss+=bet
call bonCash budget+=added gBmBon+=gBmBon bonWin+=added
play+=gBmBon
call rndOfB() status
budget+= minVal
x=false
Input
load
load== 'y' || load== 'Y'
Input
add
add+=minVal
load== 'N' || load== 'n'
z=false x=false
Output
Invalidity
cshin+=add; budget+=add;
int num=0; totCash= cshin+ bonWin+ win; spina[count]= play; data[count][num]= totCash; num++; data[count][num]= bonWin; num++; data[count][num]= win; num++; data[count][num]= loss; num++; count++; num=4; plCount++;
budgetminVal
call voucher, askRep
Input
report
report== 'y' || report== 'Y'
report== 'n' || report== 'N'
Output
Invalidity
call gameRep rep= false x= true call resetA
Output
Play the gameneat time
begin== 'n' || begin== 'N'
budget= 0 y=false
begin== 'm' || begin== 'M'
Input
game
call fiArray
game== 'p' || game== 'P'
Input
findN
call mrkSrt find, prnAry
found== 5
budget+=5 minCah+=5 bonWin+=minCah
budget= budget
begin== 'S' || begin== 's'
Input
input empName
call valPass
boolTrue
Output
name[] data[]
resetA== 'N' || resetA== 'n'
y= false x= true z= false
returntext
void status (float, string)
Output
name, budget
returntext
floatbonCash (float, float, float, float, float, int, int, float= 0)
void mrkSrt (int[], int)
int i= 0
i<MINSIZE-1
returntext
int j= i+1
i<MINSIZE
array[i]>array[j]
array[i]=array[i]; array[i]=array[j]; array[j]=array[i]; i++ j++
void prnAry (int[], int)
int c= 0
c<MINSIZE
Output
array[c]
c++
void resetA (int&, int&, int&, float&, float&, float &, float&, float&, float&, float&, float&, float&)
play= 0; numWin= 0; numLose= 0; cshin= 0; win= 0; bonWin= 0; totCash= 0; loss= 0; winPer= 0; lossPer= 0; budget= 0;
return
void gameRep (string, char, int, int, int, float, float, float, float, float, float, float)
report== 'y' || report== 'Y'
Output
gamereport
ofstream out; out.open("name".daf"); out.close();
Save to a file
return
void gameRep (string, int, int, int, float, float, float, float, float, float, float)
fstream in; in.open("name".daf"); in>>play; //file formplay
in>>numWin;
in>>numLose;
in>>cshin;
in>>win;
in>>bonWin;
in>>totCash;
in>>loss;
in>>winPer;
in>>lossPer;
in.close();
return
floatbonCash (float, float, float, float, float, float, int, int, float= 0)
added= (gBmBon<=50)?loss*bonCah1): (gBmBon<=100)?loss*bonCah2): (gBmBon<=300)?loss*bonCah3): gBmBon<=301)?loss*bonCah4)-minVal;
returnadded
void find (int[], int, int&, int)
findN>=10&&find N<=99
int count= 0
countMINSIZE
arrayscount]==findN
found= found
found++
count++
returntext
void voucher (string, float)
Setlocal time and date
generaterandom numbers
Output
voucher
returntext
void fiArray (int[], int)
int count= 0
countMINSIZE
a[count] = rand()%9+10
count++
returntext
boolvalPass (string, string)
Declare Variable
string pass= "password", username = "username
if input== pass&& empName== username
returntrue
returnfalse
floatrndOfB (float, int)
intexBud= budgetfrndOfB-0.5(budget= exBud/1000;
returnbudget
floatinsert (float&, string)
floadaddFrst
Input
addFrst
addFrst1
addFrst20000
budget+=addFrst
Output
Invalidity
returnbudget
void winPat()
Output
Winning Patterns
return
void askRep()
Output
Prompt
return