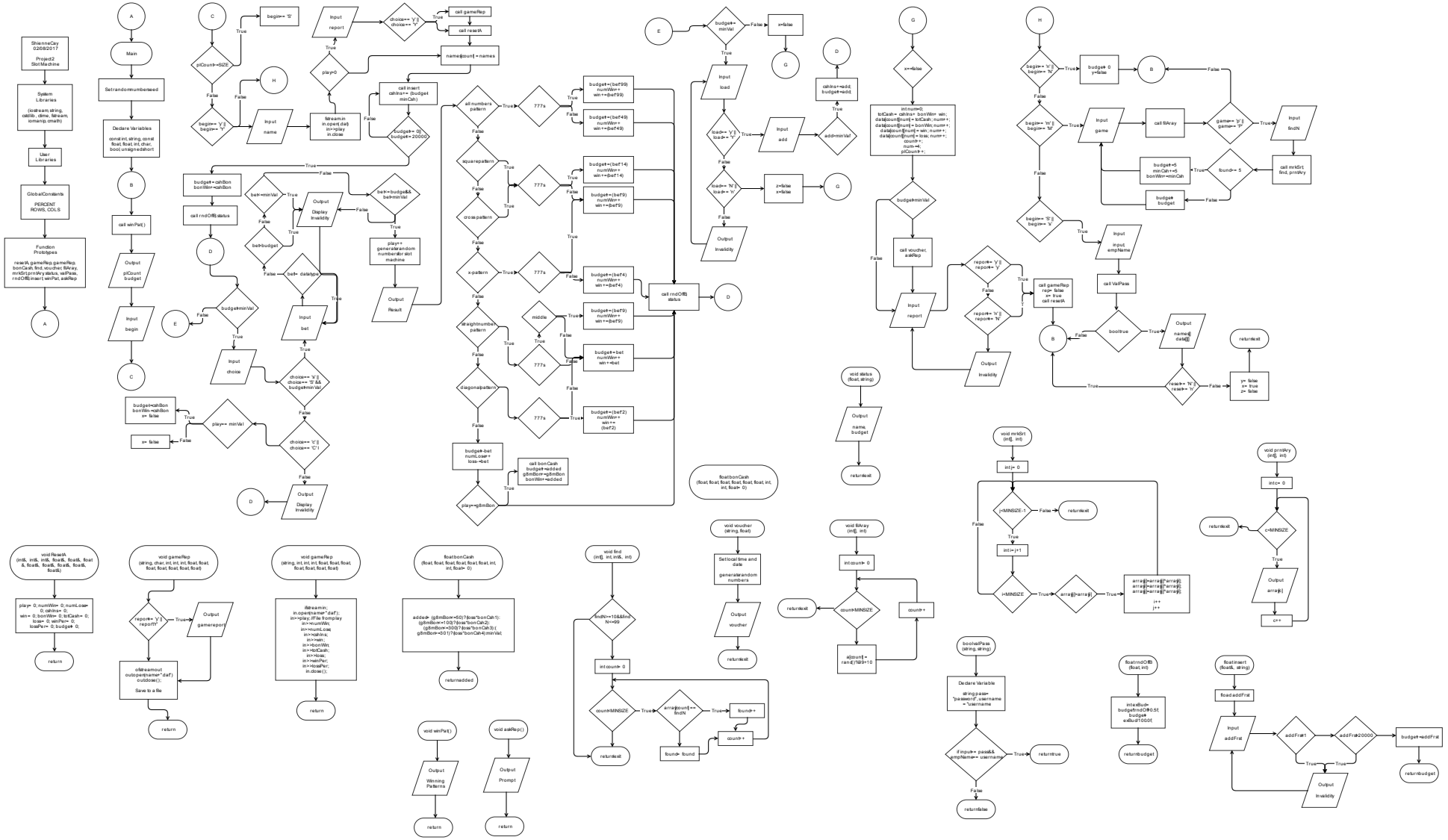
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Project2
SlotMachine
System Libraries
(iostream,string, cstdlib, ctime, fstream, iomanip, cmath)
User Libraries
GlobalConstants
PERCENT
ROWS, COLS
Function Prototypes
resetA,gameRep,gameRep, bonCash,find, voucher, fiArray, mrkSrt,prnAry,status, valPass, rndOfB,insert,winPat,askRep
Main
Setrandomumberseed
Declare Variables
const int, string, const float, float, int, char, bool, unsignedshort
call winPat( )
Output
plCount
budget
Input
begin
Input
report
choice== 'y' || choice== 'Y'
call gameRep
call resetA
name[count] = names
play>0
plCount>=SIZE
begin== 'Y' || begin== 'y'
Input
name
fstream in in.open(dat) in>>play in.close
call insert cshins+= (budget minCsh)
budget+= 0; budget+= 20000
all numbers pattern
square pattern
cross pattern
x-pattern
straightnumber pattern
diagonal pattern
777s
budget+=(bet99) numWin+ win+=(bet99)
budget+=(bet49) numWin+ win+=(bet49)
budget+=(bet14) numWin+ win+=(bet14)
budget+=(bet9) numWin+ win+=(bet9)
budget+=(bet4) numWin+ win+=(bet4)
budget+=(bet9) numWin+ win+=(bet9)
budget+=bet numWin+ win+=bet
budget+=(bet2) numWin+ win+= (bet2)
call rndOfB status
budget+=cshBon bonWin+=cshBon
call rndOfB status
bet>minVal
bet>budget
bet> dataplay
bet>budget&& bet>minVal
Output
Display
Invalidity
play++ generaterandom numberfor slot machine
Output
Result
budget<minVal
Input
choice
choice== 'y' || choice== 'S' && budget>minVal
Input
bet
choice== 'c' || choice== 'C'
budget+=cshBon bonWin+=cshBon x= false
x= false
play>= minVal
Output
Display
Invalidity
budget+bet numLose+ loss+bet
call bonCash budget+=added g8mBon+=g8mBon bonWin+=added
play>=g8mBon
budget<minVal
x=false
G
load== 'y' || load== 'Y'
Input
load
Input
add
add>minVal
cshins+=add; budget+=add
load== 'N' || load== 'n'
z=false x=false
Output
Invalidity
x==false
int numw=0; totCash= cshins+ bonWin+ win; dataloount[num] = totCash; numr+; dataloount[num] = bonWin; numr+; dataloount[num] = win; numr+; dataloount[num] = loss; numr+; count+; num+=; plCount+;
budget<minVal
call voucher, askRep
Input
report
report== 'y' || report== 'Y'
report== 'n' || report== 'N'
Output
Invalidity
call gameRep rep= false x= true call resetA
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 minCsh+=5 bonWin+=minCsh
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
void mrkSrt (int[], int)
int j= 0
i<MINSIZE-1
returntext
int i= j+1
i<MINSIZE
array[i]>array[j]
array[i]=array[i]; array[j]=array[j]; 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; cshins= 0; win= 0; bonWin= 0; totCash= 0; loss= 0; winPer= 0; lossPer= 0; budget= 0;
return
void gameRep (string, char, int, int, int, int, float, float, float, float, float, float, float, float)
report== 'y' || report== 'Y'
Output
gamereport
ofstream out outpen(name+".daf") out.close();
Save to a file
return
void gameRep (string, int, int, int, int, float, float, float, float, float, float, float, float)
fstream in; in.open(name+".daf"); in>>play; //file formplay
in>>numWin;
in>>numLose;
in>>cshins;
in>>win;
in>>bonWin;
in>>totCash;
in>>loss;
in>>winPer;
in>>lossPer;
in.close();
return
float bonCash (float, float, float, float, float, float, int, int, int, float= 0)
added= (g8mBon<=50)?loss*bonCsh1): (g8mBon<=100)?loss*bonCsh2): (g8mBon<=300)?loss*bonCsh3): g8mBon<=301)?loss*bonCsh4)-minVal;
returnadded
void winPat()
Output
Winning Patterns
return
void askRep()
Output
Prompt
return
void find (int[], int, int&, int)
findN>=10&&find N<=99
int count= 0
countMINSIZE
array[count]== findN
found= found
found+
count+
returntext
void voucher (string, float)
Set local 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= budget*rndOfB/0.5f; budget= exBud/1000f;
returnbudget
floatinsert (float&, string)
floadaddFrst
Input
addFrst
addFrst1
addFrst20000
budget+=addFrst
Output
Invalidity
returnbudget