//PROBLEM1.CPP

//Andrew Ribeiro

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//Additional files used: PROBLEM1\_FUNCTIONS.cpp

/\*File Discription:

This program allows the user to print out a callendar page of a month in a year

of the users choice.Also, the functions that are used in this program

are in the file: PROBLEM1\_FUNCTIONS.cpp.

\*/

#include <iostream>

#include <iomanip>

#include <string>

using namespace std;

//Function Prototypes;

void sub\_printCalendar(int firstDayOfYear,int userSelectedMonthNumber,int year);

int safeInput(string errorMessage,string prompt,int minValue,int maxValue);

int main()

{

int year = 0,firstDayOfYear = 0,userSelectedMonthNumber = 0;

cout<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl

<<"\* Welcome to Callendar Pro v1.0! \*"<<endl

<<"\* Callendar Pro enables you to print out a callendar page of a month in a \*"<<endl

<<"\* year of your coice-given the first day of year,month number,and year. \*"<<endl

<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl

<<endl<<endl;

//Prompt & get the information from the user.

cout<<"Please enter in the year: ";

year = safeInput("Invalid year.","Please enter a valid year: ",0,-1); //Ignoring max value limit.

//Function returns -1 if the user inputed the year wrong 3 times.

if (year == -1)

{

cout<<"\nYou have entered an invalid value three times.\nExiting program.."<<endl;

return 0;

}

cout<<"\nPlease enter in the first day of the year(1=M,2=T,3=W,4=R,5=F,6=Sa,7=Su): ";

firstDayOfYear = safeInput("Invalid first day of year choice.",\

"Please enter a valid first day of the year(1=M,2=T,3=W,4=R,5=F,6=Sa,7=Su): ",1,7);

if (firstDayOfYear == -1)

{

cout<<"\nYou have entered an invalid value three times.\nExiting program.."<<endl;

return 0;

}

cout<<"\nEnter a month\n(1=Jan,2=Feb,3=Mar,4=Apr,5=May,6=Jun,7=Jul,8=Aug,9=Sep,10=Oct,11=Nov,12=Dec): ";

userSelectedMonthNumber = safeInput("Invalid month.","Please enter a valid month: ",1,12);

if (userSelectedMonthNumber == -1)

{

cout<<"\nYou have entered an invalid value three times.\nExiting program.."<<endl;

return 0;

}

//Activate the subrotine that prints the calendar.

sub\_printCalendar(firstDayOfYear,userSelectedMonthNumber,year);

return 0;

}