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lotteryNumber IPO

**INPUT**

Int const LB; lower bound of possible 3 digit numbers, 000

Int const UB; upper bound of possible 3 digit lottery numbers, 999

Int userNum; holds choice of user lottery number

Int winningNumber; holds randomly generated number

Int i; for loop counter

Int numberWins; holds number of times the user won. Used to calculate money after 1 year, and to display number of wins during the year.

Float money; used to store and display the money the user has at the end of the year.

**PROCESS**

Seed rand() function

Ask user for their favorite number, store it in userNum

Use do-while loop to make sure user input is within upper and lower bounds, make the user try again if input is invalid.

For(i = 0; I < 365; i++){

Generate a random number using “LB + rand() % (UB – LB + 1)” method.

If userNum matches winningNumber on a particular loop, tell the user they won and which drawing they won on.

}

Money = 500\*00 \* numberWins – 365.00

**OUTPUT**

“You won the lottery x times.”

“At 1.00 per ticket and $500.00 per win, after one year you have: $xxx.xx”