Successful example 1:

Welcome! This program allows the computer to guess triple digits

The number without repeated digits you want computer to guess(The computer will not know it now):482

Guess 1 : 128

How many correct digits?2

How many exact digits?0

Guess 1 : 128 Correct: 2 Exact: 0

Guess 2 : 781

How many correct digits?1

How many exact digits?1

Guess 1 : 128 Correct: 2 Exact: 0

Guess 2 : 781 Correct: 1 Exact: 1

Guess 3 : 382

How many correct digits?2

How many exact digits?2

Guess 1 : 128 Correct: 2 Exact: 0

Guess 2 : 781 Correct: 1 Exact: 1

Guess 3 : 382 Correct: 2 Exact: 2

Guess 4 : 582

How many correct digits?2

How many exact digits?2

Guess 1 : 128 Correct: 2 Exact: 0

Guess 2 : 781 Correct: 1 Exact: 1

Guess 3 : 382 Correct: 2 Exact: 2

Guess 4 : 582 Correct: 2 Exact: 2

Guess 5 : 982

How many correct digits?2

How many exact digits?2

Guess 1 : 128 Correct: 2 Exact: 0

Guess 2 : 781 Correct: 1 Exact: 1

Guess 3 : 382 Correct: 2 Exact: 2

Guess 4 : 582 Correct: 2 Exact: 2

Guess 5 : 982 Correct: 2 Exact: 2

Guess 6 : 682

How many correct digits?2

How many exact digits?2

Guess 1 : 128 Correct: 2 Exact: 0

Guess 2 : 781 Correct: 1 Exact: 1

Guess 3 : 382 Correct: 2 Exact: 2

Guess 4 : 582 Correct: 2 Exact: 2

Guess 5 : 982 Correct: 2 Exact: 2

Guess 6 : 682 Correct: 2 Exact: 2

Guess 7 : 482

How many correct digits?3

How many exact digits?3

Guess 1 : 128 Correct: 2 Exact: 0

Guess 2 : 781 Correct: 1 Exact: 1

Guess 3 : 382 Correct: 2 Exact: 2

Guess 4 : 582 Correct: 2 Exact: 2

Guess 5 : 982 Correct: 2 Exact: 2

Guess 6 : 682 Correct: 2 Exact: 2

Guess 7 : 482 Correct: 3 Exact: 3

Yes!It is the Number!

Do you want to play again? Y/N:N

Successful example 2:

Welcome! This program allows the computer to guess triple digits

The number without repeated digits you want computer to guess(The computer will not know it now):962

Guess 1 : 801

How many correct digits?0

Guess 1 : 801 Correct: 0 Exact: 0

Guess 2 : 349

How many correct digits?1

How many exact digits?0

Guess 1 : 801 Correct: 0 Exact: 0

Guess 2 : 349 Correct: 1 Exact: 0

Guess 3 : 962

How many correct digits?3

How many exact digits?3

Guess 1 : 801 Correct: 0 Exact: 0

Guess 2 : 349 Correct: 1 Exact: 0

Guess 3 : 962 Correct: 3 Exact: 3

Yes!It is the Number!

Do you want to play again? Y/N:N

Incorrect feedback example 1:

Welcome! This program allows the computer to guess triple digits

The number without repeated digits you want computer to guess(The computer will not know it now):123

Guess 1 : 516

How many correct digits?4

How many exact digits?3

Your input is wrong, please enter again!

Note that both correct and exact digits should be integers.

Both >=0 and <=0.

Exact digits should <= Correct digits

How many correct digits?

Incorrect feedback example 2:

Welcome! This program allows the computer to guess triple digits

The number without repeated digits you want computer to guess(The computer will not know it now):123

Guess 1 : 246

How many correct digits?2

How many exact digits?3

Your input is wrong, please enter again!

Note that both correct and exact digits should be integers.

Both >=0 and <=0.

Exact digits should <= Correct digits

How many correct digits?

Exceeding guess limit example (my program will never get to 20 steps. Because every wrong input may result in the ‘dying’ of the secret number. If my program find there’s no probable number, it will tell the user one of his input must be wrong, and exit the program automatically):

Welcome! This program allows the computer to guess triple digits

The number without repeated digits you want computer to guess(The computer will not know it now):123

Guess 1 : 753

How many correct digits?0

Guess 1 : 753 Correct: 0 Exact: 0

Guess 2 : 628

How many correct digits?0

Guess 1 : 753 Correct: 0 Exact: 0

Guess 2 : 628 Correct: 0 Exact: 0

Guess 3 : 401

How many correct digits?0

Guess 1 : 753 Correct: 0 Exact: 0

Guess 2 : 628 Correct: 0 Exact: 0

Guess 3 : 401 Correct: 0 Exact: 0

Your input must be wrong, please try again!