User guides for Guest 6 digit number game
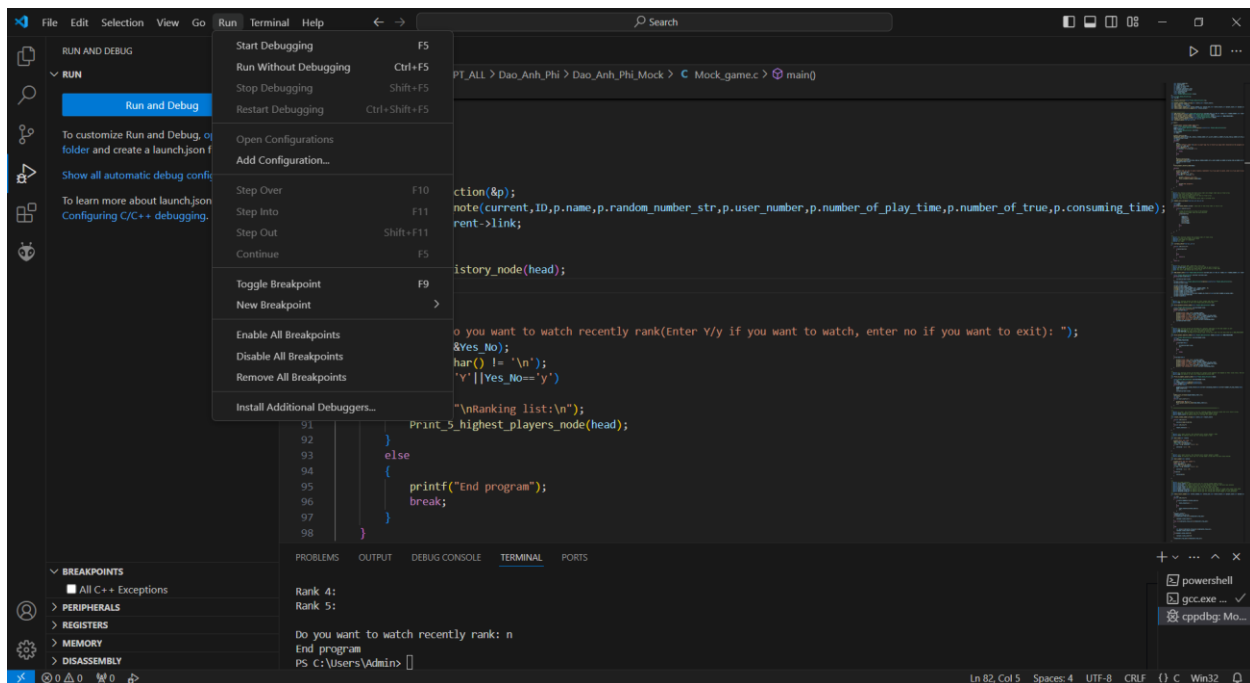
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I.   Overview:

This program is a demo of a small game which players have to guest the 6 digits number which is created randomly by the computer. Each time a player plays and after there are no players want to play, the game prints out the 5 highest players and the game is terminated.

II.   How to run:

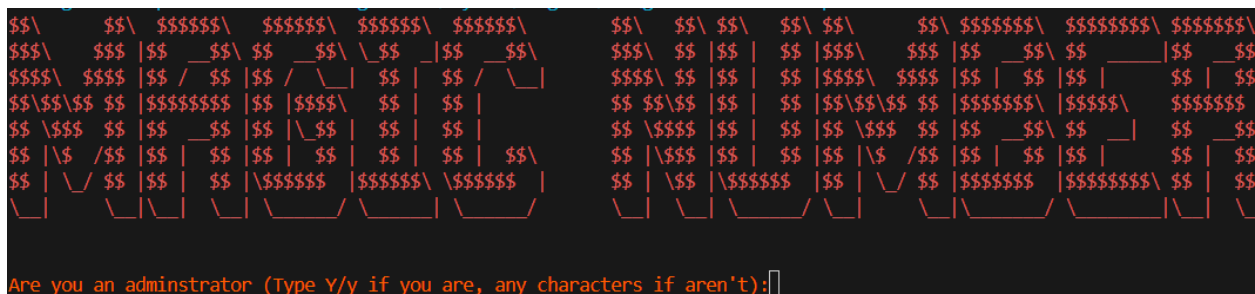This program is written in Mock_game.c file. In oder to run this program, you need gcc c/c++ compiler.

To run this game, you can follow these step:

1. Open visual studio code:
2. Open the Mock_game.c file
3. Go to Run->Start debugging or Run->Run without debugging
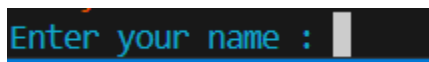
III. User input:

When we run it is going to appear this text on console:

If you want to run unit test type 'Y' or 'y'

I am not a test so I will type no

Then we officially go to the game

You enter your name(Less than 50 character) and press enter

It will show :

```
Enter your name : Phi
174094
Do you want to continue (Press N/n in order to escape, if you press any different characters, this mean that you still want to play):
```

At this moment the time is counted and I suggest you make your decision quickly. You make your like the program has guided you, then press enter.

If you want to play it will like this:

```
Enter your name : Phi
174094
Do you want to continue (Press N/n in order to escape, if you press any different characters, this mean that you still want to play):y
Enter your number:
```

Now you will enter your number and press enter:

If there are any correct number, it will show you the result number :

```
Enter your number:174077
Your result: 1740__
Current lucky ratio : 1.000000
Do you want to continue (Press N/n in order to escape, if you press any different characters, this mean that you still want to play):
```

Now just like when you make your decision to play or to exit , let assume that I want to play

```
Enter your number:174077
Your result: 1740__
Current lucky ratio : 1.000000
Do you want to continue (Press N/n in order to escape, if you press any different characters, this mean that you still want to play):y
Enter your number:
```

Just like that until you have guest the random number ,the time stop counting and your result has been stored:

```
Enter your number:174077
Your result: 1740__
Current lucky ratio : 1.000000
Do you want to continue (Press N/n in order to escape, if you press any different characters, this mean that you still want to play):y
Enter your number:17406=55
Your result: 1740__
Current lucky ratio : 0.500000
Do you want to continue (Press N/n in order to escape, if you press any different characters, this mean that you still want to play):y
Enter your number:174094
Your result: 174094
Current lucky ratio : 0.666667

Player number 2 wants to play? Type Y/y or N/n(If you type other characters
 the program considers it is yes
Y/N:
```

This is the time when we switch player , follow the program guide and enter your option . Incase when to want to exist during your play turn it will also show a similar result like this. Now if you chose Y the second player will play and so on

```
Do you want to continue (Press N/n in order to escape, if you press any different characters, this mean that you still want to play):y
Enter your number:882456
Your result: 88245_
Current lucky ratio : 1.000000
Do you want to continue (Press N/n in order to escape, if you press any different characters, this mean that you still want to play):y
Enter your number:882344
Your result: 882___
Current lucky ratio : 0.000000
Do you want to continue (Press N/n in order to escape, if you press any different characters, this mean that you still want to play):y
Enter your number:882432
Your result: 8824__
Current lucky ratio : 0.333333
Do you want to continue (Press N/n in order to escape, if you press any different characters, this mean that you still want to play):y
Enter your number:882455
Your result: 882455
Current lucky ratio : 0.500000

Player number 3 wants to play? Type Y/y or N/n(If you type other characters
 the program considers it is yes
Y/N:
```

In this scenario, the second player also guest the number

After this the program will show the history of all players

```
History profile

Player name: Phi
Player ID:1
Number of rounds: 3
Number of lucky rounds: 2
Lucky ratio: 0.666667
Time consumption: 176.429993

Player name: Quynh
Player ID:2
Number of rounds: 4
Number of lucky rounds: 2
Lucky ratio: 0.500000
Time consumption: 24.993000


Do you want to watch recently rank(Enter Y/y if you want to watch, enter any order characters if you want to exit):
```

Now just like time when you make decision , just follow the program guideline,
now I want to watch the rank.

```
Ranking list:
Rank 1:
Player name: Phi
Player ID:1
Number of rounds: 3
Number of lucky rounds: 2
Lucky ratio: 0.666667
Time consumption: 176.429993

Rank 2:
Player name: Quynh
Player ID:2
Number of rounds: 4
Number of lucky rounds: 2
Lucky ratio: 0.500000
Time consumption: 24.993000

Rank 3:
Rank 4:
Rank 5:
```
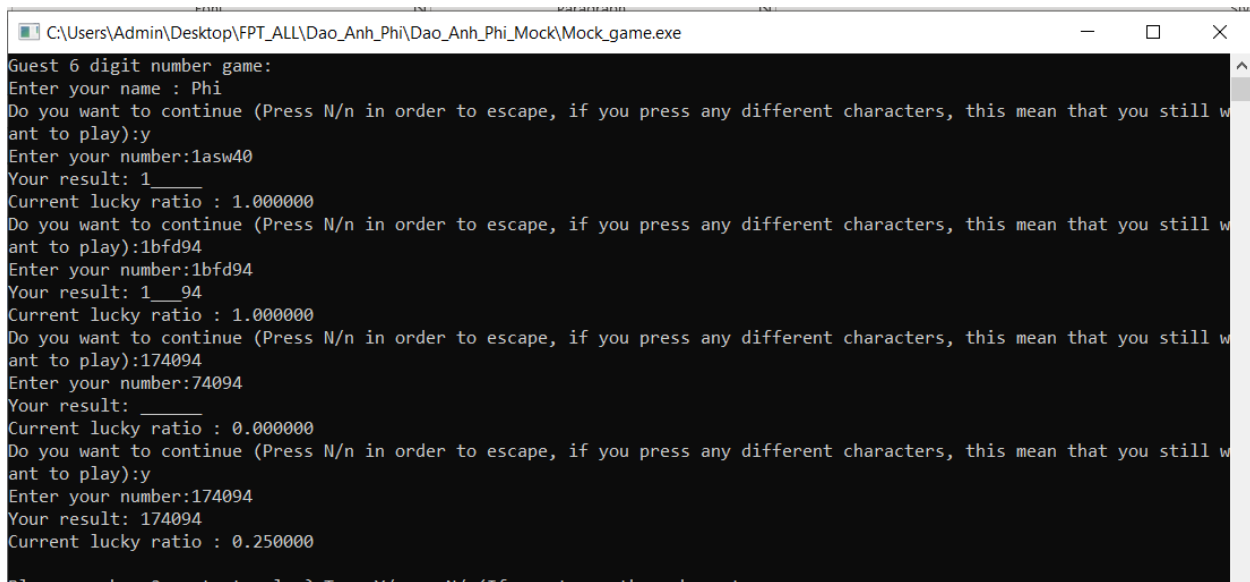
The program will show you the ranks of 5 highest player. In this scenario, rank3, rank4, rank5 is blank because there are only two player. Now you can rewatch the ranking list or you exit the program.
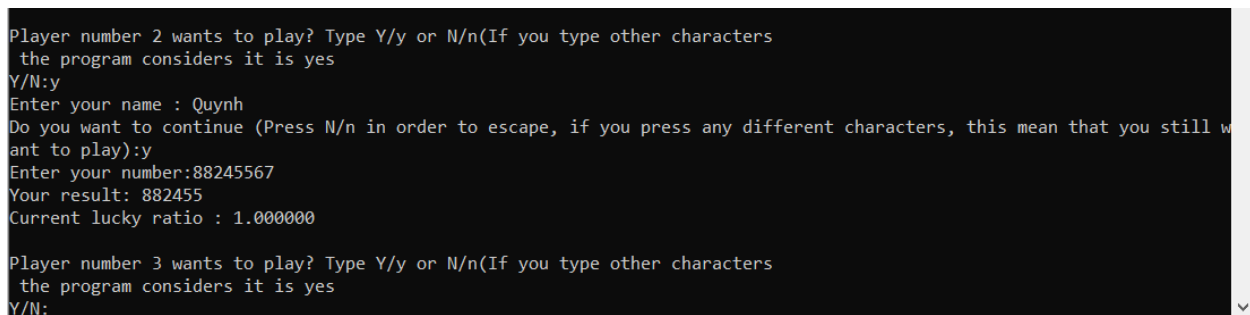
IV. Note:

When enter the number if you enter characters instead of numbers in a specific position, the program will understand that the position is filled with wrong number.

When you answer contains more than 6 number characters, the program will only check the first 6 number from left to right.

You can rewatch 5 highest players and players history after exiting the game by accessing these two files

Name	Date modified	Type	Size
Architecture-Detail	8/6/2024 6:16 PM	Microsoft Edge PD...	122 KB
Five_highest_player	8/7/2024 11:27 AM	Text Document	1 KB
History_of_all_player	8/7/2024 11:27 AM	Text Document	1 KB
Mock_game	8/7/2024 11:10 AM	C Source File	17 KB
Mock_game	8/7/2024 11:10 AM	Application	414 KB
Unit_Test_Report	7/24/2024 8:11 AM	Microsoft Excel W...	25 KB
User guides for Guest 6 digit number ga...	8/7/2024 11:19 AM	Microsoft Word D...	461 KB

Five_highest_player - Notepad

File   Edit   Format   View   Help

```
Rank 1:
Player name: Quynh
Player ID:2
Number of rounds: 1
Number of lucky rounds: 1
Lucky ratio: 1.000000
Time consumption: 11.955000

Rank 2:
Player name: Phi
Player ID:1
Number of rounds: 4
Number of lucky rounds: 1
Lucky ratio: 0.250000
Time consumption: 60.817001

Rank 3:
Rank 4:
Rank 5:
```