Submission Worksheet

CLICK TO GRADE

https://learn.ethereallab.app/assignment/IT114-004-S2024/it114-number-guesser-4/grade/zb64

IT114-004-S2024 - [IT114] Number Guesser 4

Submissions:

Submission Selection

1 Submission [active] 2/12/2024 4:34:35 PM

Instructions

A COLLAPSE A

3.

4.

Create the below branch name Implement the NumberGuess4 example from the lesson/slides

https://gist.github.com/MattToegel/aced06400c812f13ad030db9518b399f

Add/commit the files as-is from the lesson material (this is the base template). You may want to push this commit so you can open the pull request and keep it open. Pick two (2) of the following options to implement

Display higher or lower as a hint after a wrong guess (only after a wrong guess that doesn't

roll back the level)
Implement anti-data tampering of the save file data (reject user direct edits)
Add a difficulty selector that adjusts the max strikes per level (i.e., "easy" 10 strikes, "medium" 5 strikes, "hard" 3 strikes)

Display a cold, warm, hot indicator based on how close to the correct value the guess is

- (example, 10 numbers away is cold, 5 numbers away is warm, 2 numbers away is hot; adjust these per your preference) Only display this when the wrong guess doesn't roll back the level
- 5. 6. 7. 8. Add a hint command that can be used once per level and only after 2 strikes have been

used that reduces the range around the correct number (i.e., number is 5 and range is

initially 1-15, new range could be 3-8 as a hint)

- Implement separate save files based on a "What's your name?" prompt at the start of the 9. game (each person gets their own save file based on user's name)
- Fill in the below deliverables 10.

Save changes and export PDF

Git add/commit/push your changes to the HW branch

Create a pull request to main

Complete the pull request (don't forget to locally checkout main and pull changes to prep for future work)

Upload the same PDF to Canvas

Branch name: M3-NumberGuesser-4

Tasks: 7 Points: 10.00





Task #1 - Points: 1

Text: Chosen Option and Details

Checklist		*The checkboxes are for your own tracking
#	Points	Details
#1	1	Mention which option you picked
#2	1	Explain the logic of how you solved/implemented the chosen option (concrete details). Explain how the code works, don't just paste code snippets

Response:

I completed option 4. To solve option 4, I considered how to determine if the number entered by the user would be close to the generated number. To do this, I calculated the difference between the statement to check this

difference and determine if it was very close, moderately close, or far from the random number. Once it's checked, it will be followed by a print statement indicating if the user is close, warm, or cold with their guess.



Task #2 - Points: 1

Text: 2+ Screenshots of code and demo

Checklist		*The checkboxes are for your own tracking
#	Points	Details
#1	1	Show implementation working by running the program
#2	1	Clearly caption the screenshot of what you're showing
#3	1	The code screenshot(s) clearly show the code specific to the feature
#4	1	A comment with the UCID/date is visible near the code change(s)

Task Screenshots:

Gallery Style: Large View

Small Medium Large



```
は NumberGuesser4 🗦 😭 processGuess(int)
                           (level < 1) {
Q
       130
131
જુ
        133
200
                    private void processGuess(int guess) (
        136
137
₽8
                        System.out.println("You guessed " + guess);
        139
140
ß
                        if (guess == number) {
                            wim();
                            pickNewRandom = true;
Д
        142
143
                            System.out.println(x:"That's wrong");
        144
145
146
*
                             if (strikes >= maxStrikes) {
                                lose();
                                pickNewRandom = true;
        147
148
149
                              else @
int diff = Math.abs(number-guess);
C
        151
152
                                   System.out.println(xi"You are hot. You are really close");
                                  else if (diff <= 5) {
_{\mathbb{Q}}
        153
154
155
                                   System.out.println(XI"You are warm! Keep going.");
                                ) else if (diff <= 18) {
System.out.println(xi"You are cold.");
(b)
                               //2b64 2/12/24
        157
158
(3e)
        159
        160
161
                        saveState();
        163
164
                    private int strToNum(String message) {
                        int guess = -1;
        165
167
                            guess = Integer.parseInt(message.trim());
                         catch [NumberFormatException e) {
   System.out.println(x;"You didn't enter a number, please try again");
0
        169
                          catch (Exception e2) {
                            System.out.println(x:"Null message received");
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Missing Caption

Checklist Items (0)





Task #1 - Points: 1

Text: Chosen Option and Details

Checklis	Checklist *The checkboxes are for your own tracking		
#	Points	Details	
#1	1	Mention which option you picked	
#2	1	Explain the logic of how you solved/implemented the chosen option (concrete details). Explain how the code works, don't just paste code snippets	

Response:

I completed option 5. For option 5, I initially created a message similar to the quit statement that was in the constructor and then introduced a new method to outline steps on how to determine the beginning and ending range so the user can utilize

calculates the lower

and set 10 as the

calculating the upper limit of the range. I also set

in the constructor to indicate that the hint was being used once the range was method, I followed the same format as the quit statement and specified that the hint should be displayed when it hasn't been used and there are 2 or more strikes.



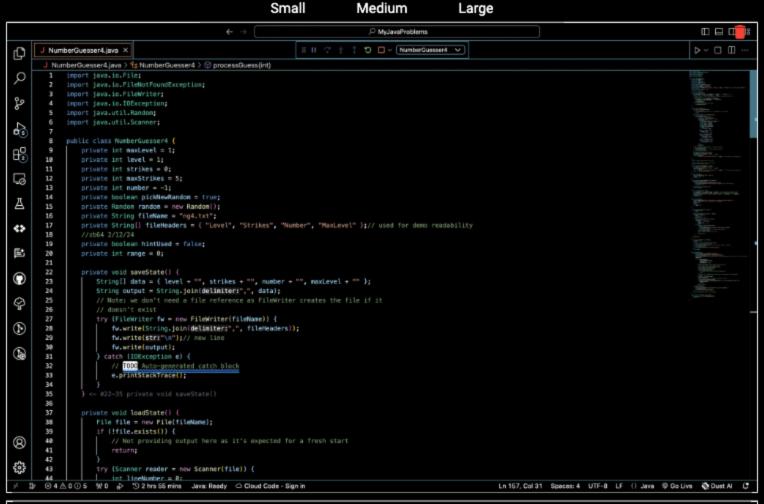
Task #2 - Points: 1

Text: 2+ Screenshots of code and demo

Checklist		*The checkboxes are for your own tracking
#	Points	Details
#1	1	Show implementation working by running the program
#2	1	Clearly caption the screenshot of what you're showing
#3	1	The code screenshot(s) clearly show the code specific to the feature
#4	1	A comment with the UCID/date is visible near the code change(s)

Task Screenshots:

Gallery Style: Large View



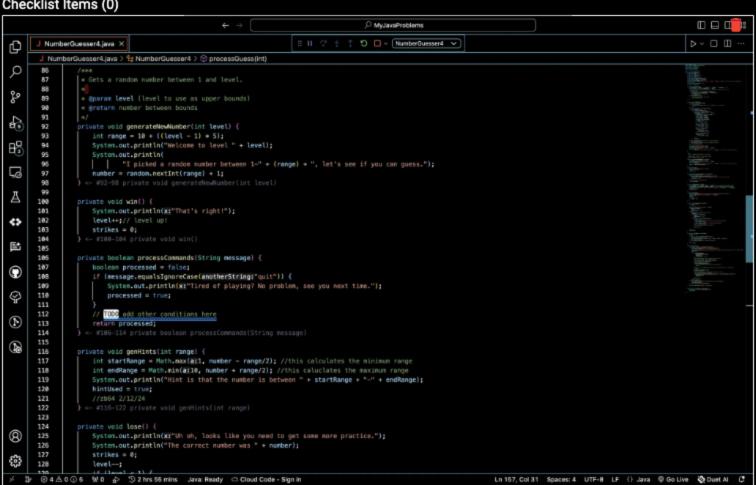
Missing Caption

Checklist Items (0)

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MyJavaProblems
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       J NumberGuesser4.java ×
                                                                                  ⊞ II 💎 🙏 🙏 📆 🔲 ∨ NumberGuesser4 ∨
Ð
                     esser4.java > 😘 NumberGuesser4 > 🕤 loadState()
Ω
                             int lineNumber = 0;
                             while (reader.hasNextLine()) {
         45
46
                                 String text = reader.nextLine();
ŝ
                                 if (lineNumber == 1) {
   String[] data = text.split(regex:",");
         48
         49
400
                                      String level = data[0];
         51
52
53
                                     String strikes = data[1];
String number = data[2];
8
                                      String maxLevel = data[3];
                                     int temp = strToNum(level);
if (temp > -1) {
         54
55
ß
         56
57
58
                                         this.level = temp;
Д
                                     temp = strToNum(strikes);
         59
*
         68
                                         this.strikes = temp;
         61
         62
                                      temp = strToNum(number);
酚
                                     if (temp > -1) {
this number = temp;
         63
64
         65
0
         66
67
                                      temp = strToNum(maxLevel);
Ŷ
         69
                                         this.maxLevel = temp;
(b)
         71
72
                                 lineNumber++;
         73
(2)
         75
76
                          e.printStackTrace();
catch [Exception e2] {// any other unhandled exception
                             e2.printStackTrace();
         78
                        System.out.println(%:"Loaded state");
                      int range = 10 + ((level - 1) + 5); //zt64 2/12/24
System.out.println("Welcome to level " + level);
System.out.println(
         81
         82
                       | "I picked a random number between 1-" + (range) + ", let's see if you can guess.");
- #37-84 private void loadState()
®
         83
         84
         85
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Missing Caption

Checklist Items (0)



Missing Caption

Checklist Items (0)

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○ MyJavsProblems

       J NumberGuesser4.java ×
                                                                                                                                                                                                            ▷ ~ □ □ ...
                                                                                                        * □ ∨ NumberGuesserd ∨
Ð
ρ
        186
187
                                  System.out.println(x:"Type a number and press enter");
// we'll wont to use a local variable here
જુ
                                   // so we can feed it into multiple functions
        190
                                  String message = input.mextLine():
200
        192
193
194
195
196
197
198
199
280
                                  if (processCommands(message)) {
                                      // command handled; don't proceed with gome logic
8
int guess = strToNum(message);
Д
                                  processGuess(guess);
// the following lime is the same as the above two limes
        201
202
203
                                  // processGuess(getGuess(message)
*
                                  if (message.equalsIgnoreCase(anotherString; "hint") &6 (hintUsed &6 strikes >=2) {
                                      genHints(range);
204
205
206
207
208
209
210
211
212
C
                           ) while (true); <- #181-207 do catch (Exception e) {
                             System.out.println(x:"An unexpected error occurred. Goodbye.");
Ø,
                             System.out.println(e.getMessage());
(
        213
214
215
                         System.out.println(x:"Thanks for playing!");
        216
217
218
                     public static void main(String[] args) {
                        NumberGuesser4 ng = new NumberGuesser4();
                         ng.start();
        219
        220
0
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        ⊚ 4 △ 0 ⊙ 6 № 0 🖒 ⊙ 2 hrs 55 mins Java: Ready △ Cloud Code - Sign in
                                                                                                                                                 Ln 167, Col 31 Spaces: 4 UTF-8 LF () Java @ Go Live 🗞 Duet Al 🕻
```

Missing Caption

Checklist Items (0)





Task #1 - Points: 1

Text: Reflection

Checklist		*The checkboxes are for your own tracking
#	Points	Details
#1	1	Example prompts: Learn anything new? Face any challenges? How did you overcome and issues?
#2	1	At least a few logical sentences related to the assignment.

Response:

One of the things that I learned was how to create a quit message for users if they are tired of repeatedly playing the game. Additionally, I learned about filewriters and their functionality. One challenge that I faced was determining the range around the guessed number. I overcame this

challenge by searching online and asking for assistance on how to find the range of a number generator. This helped me understand what each part of the code does and how to implement it effectively.



Task #2 - Points: 1
Text: Pull Request URL

Details:

URL should end with /pull/# where the # is the actual pull request number.

URL #1

Missing URL



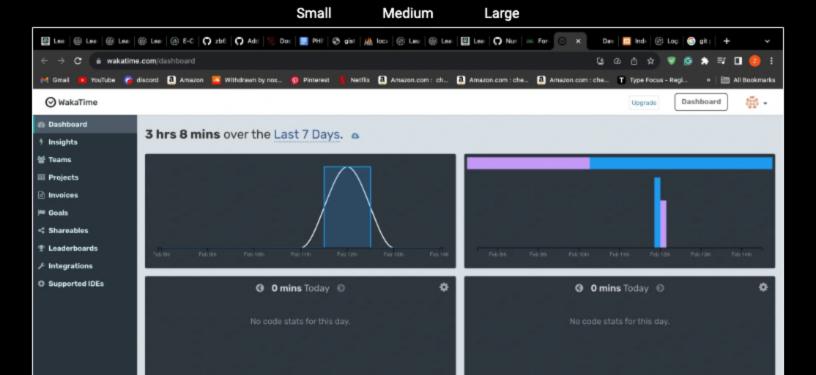
Task #3 - Points: 1

Text: Waka Time (or related) Screenshot

Checklist		*The checkboxes are for your own tracking
#	Points	Details
#1	1	Screenshot clearly shows what files/project were being worked on (the duration of time doesn't correlated with the grade for this item)

Task Screenshots:

Gallery Style: Large View



This is showing how long I've been working on this assignment.

Checklist Items (1)

#1 Screenshot clearly shows what files/project were being worked on (the duration of time doesn't correlated with the grade for this item)

End of Assignment