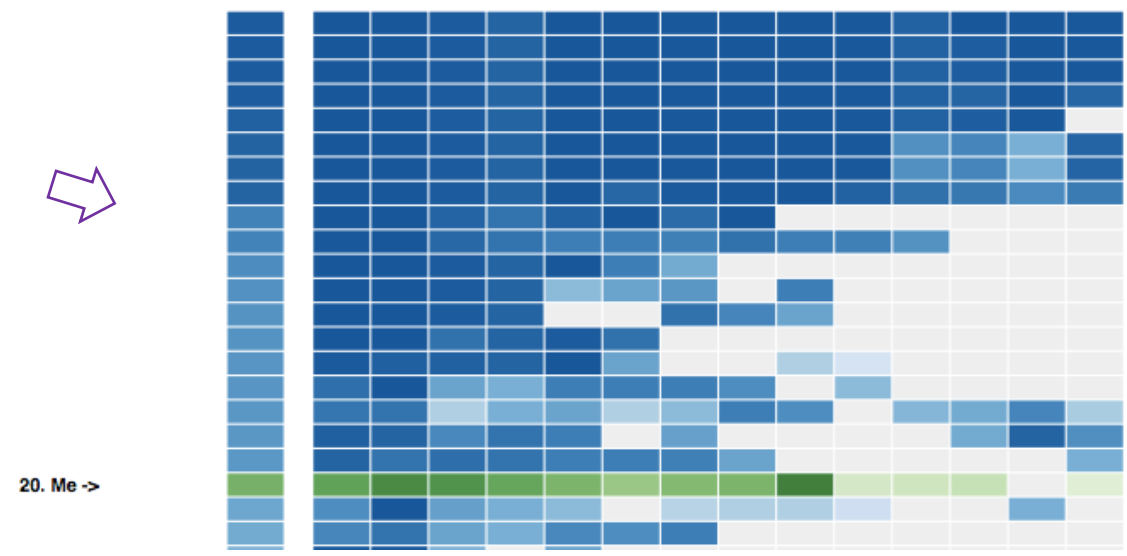


- Progress Visualization**
- First row (Me) shows **your progress** (Darker green means more progress on that topic)
 - Second row (Me vs group) **compares your progress with your classmates** (Darker green means you have more progress than the group; darker blue means they have more progress than you; grey means equal progress.)
 - Third row (Group) shows the **average progress of your classmates** (Darker blue means more progress on that topic)

Show progress ranked list

Ranked list of students in the class (you are 20th out of 69)

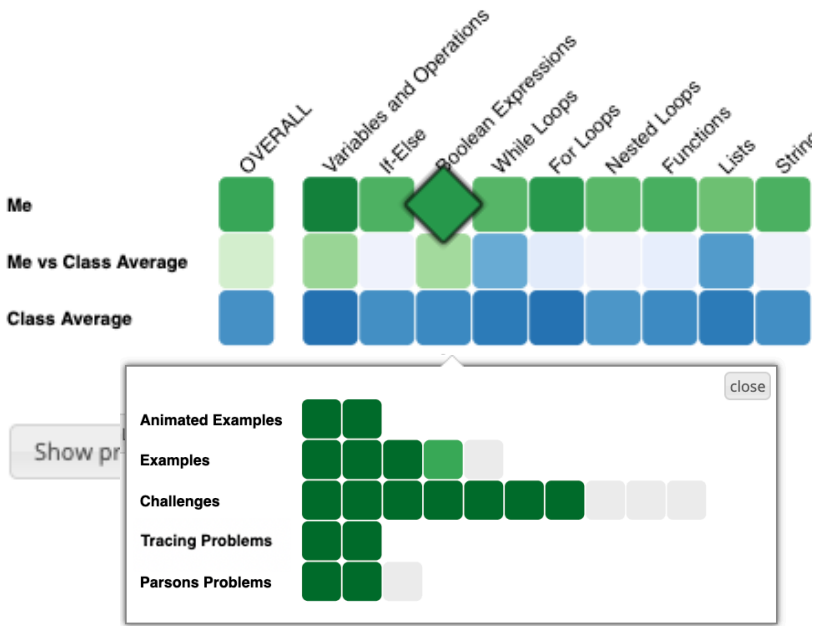
Click the button above to load the list of other students (anonymized) and shows in which position you are in terms of progress



How to Increase your Progress?

To have more greener cells on **Me** row, you need to interact with the learning activities inside each topic.

Click on a topic cell as shown below and access the contents. Viewing animation steps, clicking on example lines or solving challenges, questions and parsons problems to increase your progress.



Animated Examples

Play animation steps to how the program executed

```
1 account1 = 2540
2 account2 = 13250
3 price = 3400
4
5 can_afford = account1 >= price or account2 >= price
6 can_afford = account2 >= price or account1 >= price
7
8 account2 = account2 - price
9
10 money_left = account1 > 0 and account2 > 0
11 limit_exceeded = account1 < 0 and account2 < 0
```

Stack frame

account1: 2540

account2: 13250

Literals: >=, or, -, >, and, <

Text console

Fetching value 13250 - ready.

Tracing Problems

Predict the output of the program. It is either the console output or the value of **result** variable.

Tester.py

```
account1 = 186
account2 = 186 + 50
price = 250
can_afford = account1 >= price or account2 >= price
account2 = account2 - price
money_left = account1+account2 > 0
result = money_left
```

What is the final value of **result**?

CORRECT!

Your Answer is: True

Correct Answer is: True

Try Again

Examples-Challenges

Check how a program is constructed line by line in examples and challenge yourself with challenges and complete the missing lines.

Example: Determining When to Buy a New Phone (Case 1)

Construct a program that determines whether it is time to buy a new phone based on the inputs that it receives from the user. A new phone should be bought if the phone breaks or the phone is at least 3 years old.

Challenge: Determining When a Student Fails a Course (Case 2)

Construct a program that determines whether a student fails the course based on the inputs that it receives from the instructor. The student fails the course if the exam score is less than 55 or when the student has cheated.

Drag a tile to each missing field to construct this program.

Parsons Problem

Reorder the program lines to solve the given task at the bottom of the screen. Pay attention to indentation.

Drag from here

```
else:
elif input_a == 0 and input_b == 0:
print(??)
print(??)
```

Construct your solution here

```
if input_a == 1 and input_b == 1:
    print(??)
```

New instance Get feedback

Construct a program that mimics a XOR gate (exclusive or). When input_a and input_b are the same, it should print out 0 and in other cases print out 1.