

week 1 - reflection

You are allowed to use internet resources but you're not allowed to see other participants' code.
The evaluation has a duration of 1 hour and a total of 2 points.

Exercise 1 (1 point)

Derek is having dinner with his friends and wants to treat them to celebrate that he got a job as developer. However, he's not sure whether he's got enough money to do it. In order to figure it out he needs to cover the following points:

- Ask himself how much money he has in his wallet.
- Ask himself how many friends are having dinner with him.
- Ask all his friends one by one how much money they have to pay.
- Decide whether he's got enough money to invite them or not and say it.

Develop the following code:

- a. Define a method to ask Derek how much money he has.
- b. Define a method that asks all his friends and calculates the total money that they have to pay.
- c. Write the code that Derek uses to say if he can invite his friends or not.

Hints:

- *Try to separate every sub-problem in methods so they become easier to solve.*
- *Assume nobody needs cents that night.*
- *No need to validate for negative numbers or any other hocus-pocus.*

Exercise 2 (1 point)

Derek just realized that he also has to have his own bill into consideration to know whether he can invite everybody.

- If he already said he cannot invite his friends, he will not even bother on doing anything else.
- In case he said he could invite his friends, he will quickly update his calculation considering the money he also has to pay.
- If he can still invite his friends, then he says nothing else to hide the fact that he forgot to include his bill into consideration.
- If he cannot invite his friends after including his bill, he will explain that he made a mistake calculating and that he's sorry but he cannot invite them today.

Extend the previous exercise with the following code:

- a. Define a method to ask Derek how much he has to pay for what he ordered at the restaurant.
- b. Update the previous code so that the new behavior is ensured.

Hints:

- *Try to separate every sub-problem in methods so they become easier to solve.*