| homework | type:<br>colab or<br>handwritten | similar<br>exercise |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------|----------------------------------|---------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ex.0.1.2 | colab                            | ex.0.1.1            | ex.0.1.1 colab solution                             | https://colab.research.google.com/drive/18cg/LPzrLr1YNaSdE7D8oQL5RNIybgLK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| CX.0.1.2 | COIGD                            | CX.0.1.1            | CX.O.I.I COIDS SOIDCION                             | https://colabilitecumponic.com/unite/socialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteraturesocialiteratur |
| ex.0.1.6 | colab                            | ex.0.1.6.b          | ex.0.1.6.b colab solution                           | https://colab.research.google.com/drive/1TkQwbJltvff-VRr_ByNWhYiLr-9_JNpx                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| cp.0.1.2 | colab                            | cp.0.1.1            | cp.0.1.1 colab solution getting started on cp.0.1.2 | https://colab.research.google.com/drive/1p-uMGR2ZwJQDHreL3GJWTsyUmGQxLEpS<br>https://colab.research.google.com/drive/1VJvGb7mn3R58NXIJx9gdwA4ccULAFTE3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ex.0.2.4 | handwritten                      | ex.0.2.3            | ex.0.2.3 PDF solution colab related to ex.0.2.3     | https://langou.github.io/4650/0.2/exercise_ex_0_2_03sauersol_langou/exercise_ex_0_2_03sauer_sol_langou.pdf<br>https://colab.research.google.com/drive/15eH4ZJPSJ1K9fCefVra7lKw5Ws36WB6R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ex.0.2.8 | handwritten                      | ex.0.2.7            | ex.0.2.7 PDF solution colab related to ex.0.2.7     | https://langou.github.io/4650/0.2/exercise ex 0 2 07 sauer sol langou/exercise ex 0 2 07 sauer sol langou.pdf<br>https://colab.research.google.com/drive/1prkH1Saji2f2Th8Lom5 JcOhuuBJQSOY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ex.0.3.6 | handwritten                      | ex.0.3.5            | ex.0.3.5 PDF solution<br>colab related to ex.0.3.5  | https://langou.github.io/4650/0.3/exercise ex 0 3 05 sauer sol langou/exercise ex 0 3 05 sauer sol langou.pdf<br>https://colab.research.google.com/drive/1Rp45zp-DmKzMdh9JO9 Mn X7KBiH34Bc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ex.0.3.7 | handwritten                      | ex.0.3.7            | ex.0.3.7 PDF solution colab related to ex.0.3.7     | https://langou.github.io/4650/0.3/exercise_ex_0_3_07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ex.0.4.2 | handwritten                      | ex.0.4.3            | ex.0.4.3 PDF solution colab related to ex.0.4.3     | https://langou.github.io/4650/0.4/exercise ex 0 4 03 sauer sol langou/exercise ex 0 4 03 sauer sol langou.pdf<br>https://colab.research.google.com/drive/19c-eoifrUWtfhXvYtjqMlsPeFEXW32CP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ex.0.5.2 | handwritten                      |                     |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ex.0.5.6 | handwritten                      | ex.0.5.7            | ex.0.5.7 PDF solution<br>colab related to ex.0.5.7  | https://langou.github.io/4650/0.5/exercise ex 0 5 07 sauer sol langou/exercise ex 0 5 07 sauer sol langou.pdf https://colab.research.google.com/drive/11-RqoQ1hYF1tFyqU vIXGVTQsVm57Lt1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |