DAT108 Oblig 2
Gruppe 14

Joachim Leiros
Finn Arne Crowo Nielsen
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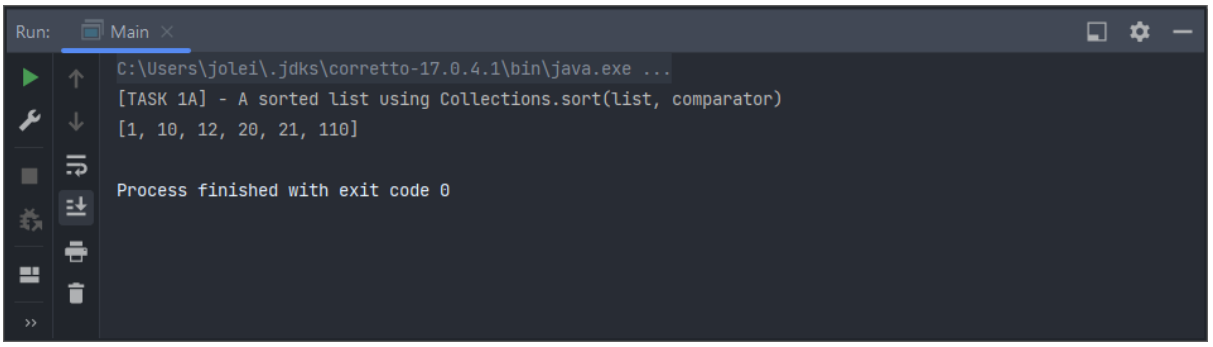
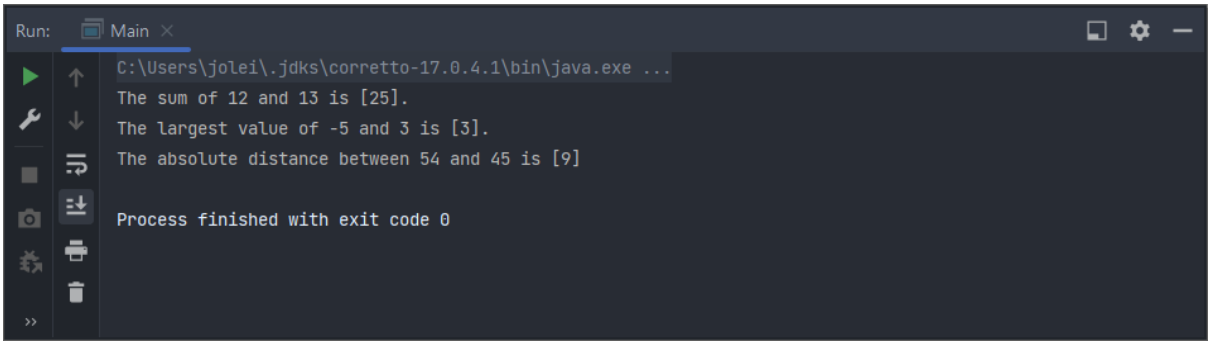
Oppgave 1
a)

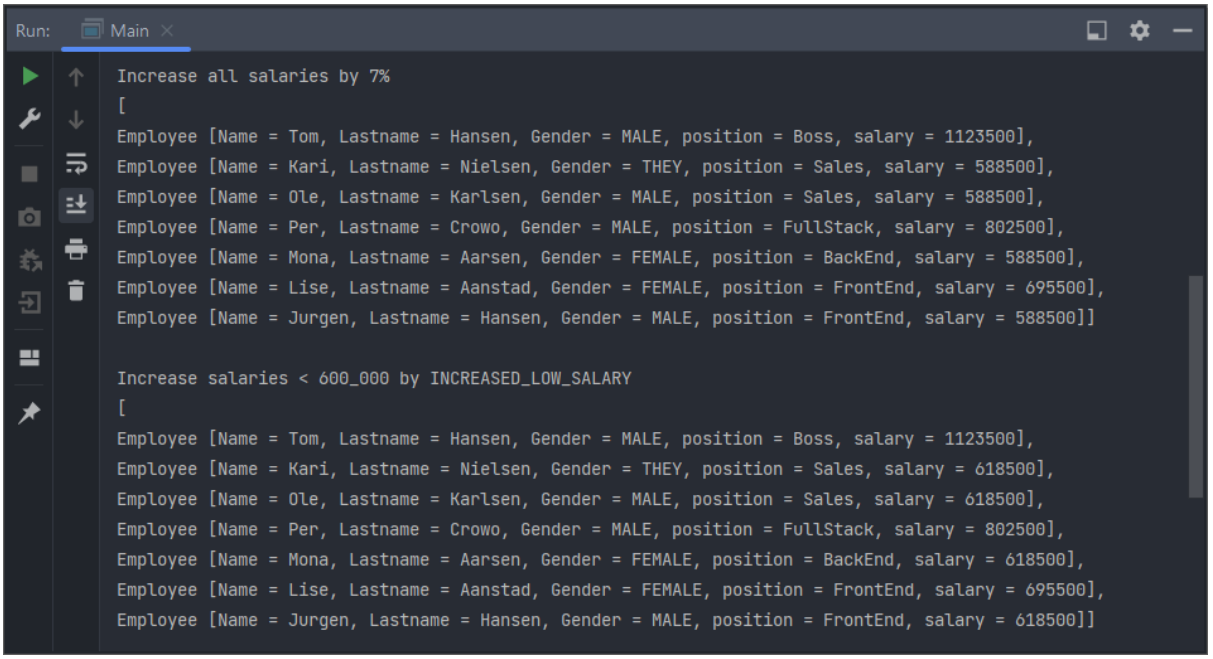


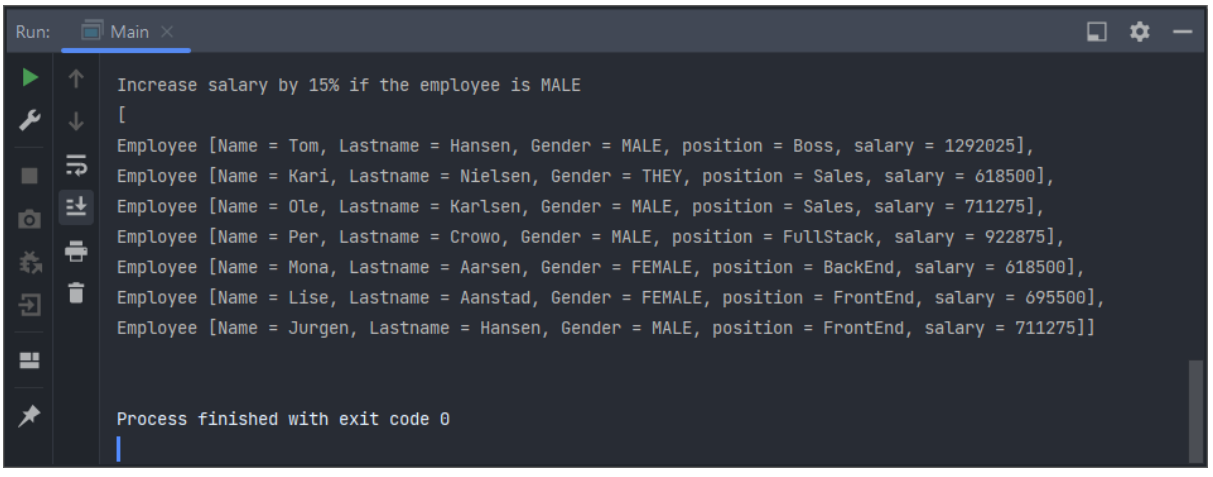
b)



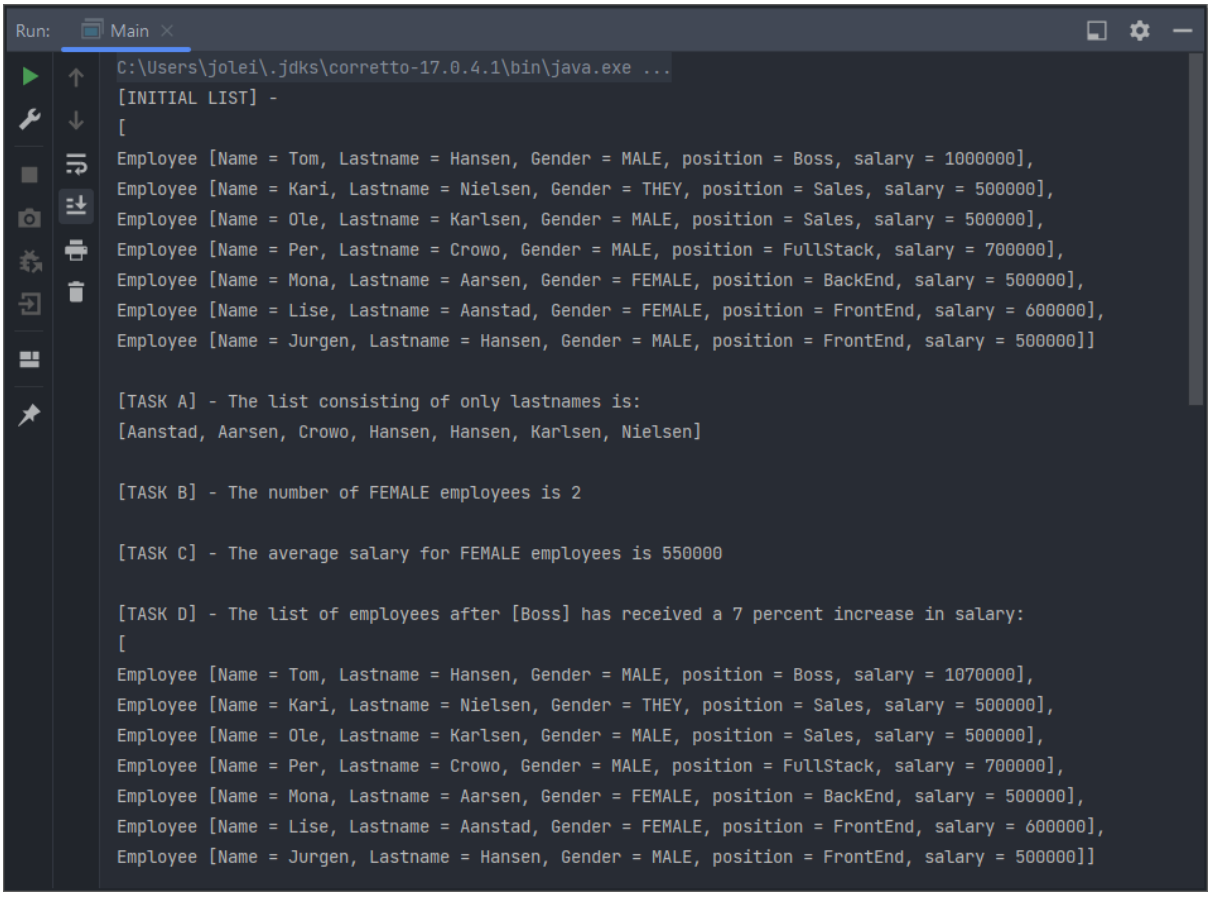
Oppgave 2

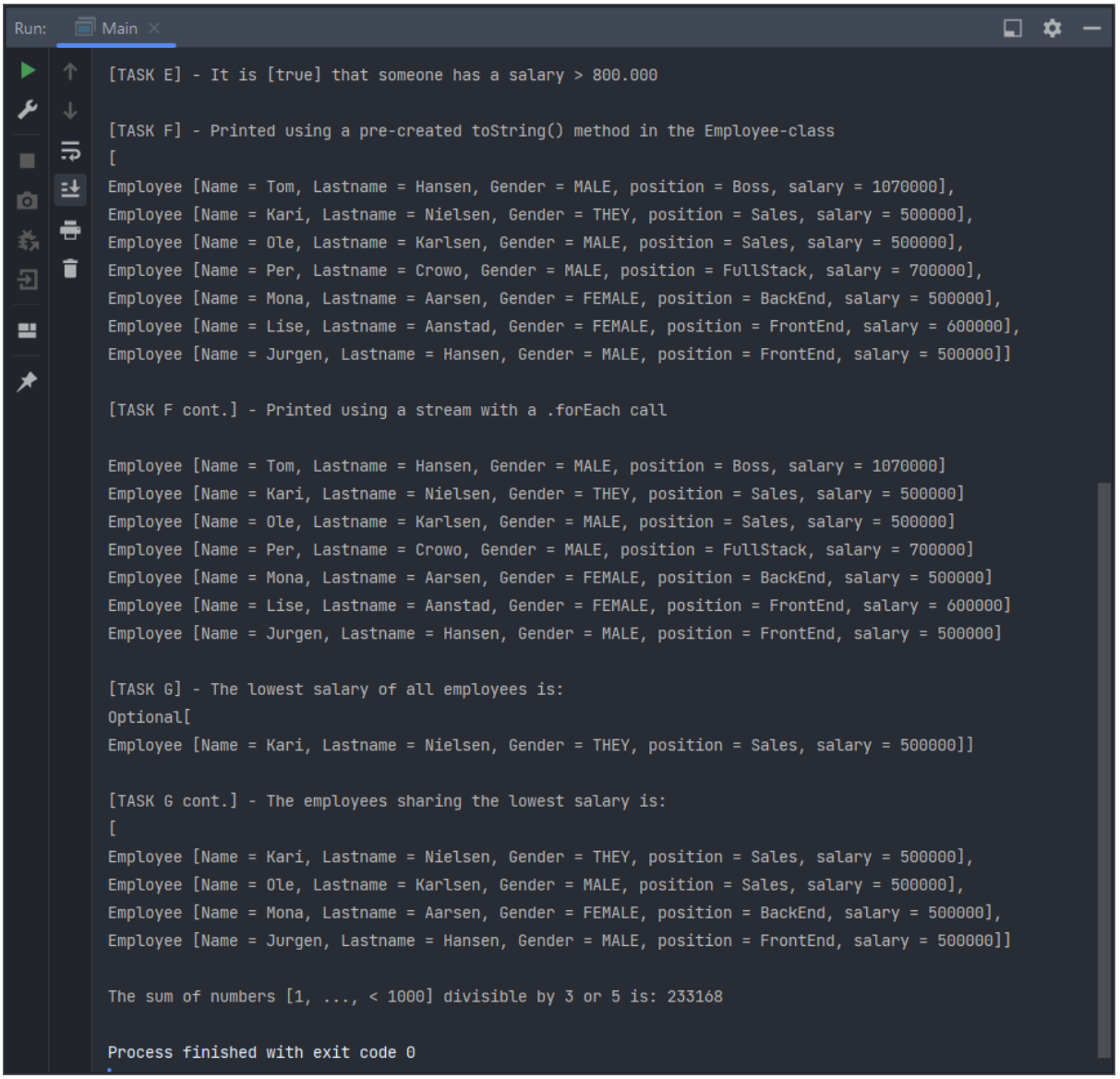

Run:
Main
C:\Users\jolei\.jdks\corretto-17.0.4.1\bin\java.exe ...
[TASK 2] - The list of employees before any adjustments:
[
Employee [Name = Tom, Lastname = Hansen, Gender = MALE, position = Boss, salary = 1000000],
Employee [Name = Kari, Lastname = Nielsen, Gender = THEY, position = Sales, salary = 500000],
Employee [Name = Ole, Lastname = Karlsen, Gender = MALE, position = Sales, salary = 500000],
Employee [Name = Per, Lastname = Crowo, Gender = MALE, position = FullStack, salary = 700000],
Employee [Name = Mona, Lastname = Aarsen, Gender = FEMALE, position = BackEnd, salary = 500000],
Employee [Name = Lise, Lastname = Aanstad, Gender = FEMALE, position = FrontEnd, salary = 600000],
Employee [Name = Jurgen, Lastname = Hansen, Gender = MALE, position = FrontEnd, salary = 500000]]
Increase all salaries by 50_000
[
Employee [Name = Tom, Lastname = Hansen, Gender = MALE, position = Boss, salary = 1050000],
Employee [Name = Kari, Lastname = Nielsen, Gender = THEY, position = Sales, salary = 550000],
Employee [Name = Ole, Lastname = Karlsen, Gender = MALE, position = Sales, salary = 550000],
Employee [Name = Per, Lastname = Crowo, Gender = MALE, position = FullStack, salary = 750000],
Employee [Name = Mona, Lastname = Aarsen, Gender = FEMALE, position = BackEnd, salary = 550000],
Employee [Name = Lise, Lastname = Aanstad, Gender = FEMALE, position = FrontEnd, salary = 650000],
Employee [Name = Jurgen, Lastname = Hansen, Gender = MALE, position = FrontEnd, salary = 550000]]


Run:
Main
Increase all salaries by 7%
[
Employee [Name = Tom, Lastname = Hansen, Gender = MALE, position = Boss, salary = 1123500],
Employee [Name = Kari, Lastname = Nielsen, Gender = THEY, position = Sales, salary = 588500],
Employee [Name = Ole, Lastname = Karlsen, Gender = MALE, position = Sales, salary = 588500],
Employee [Name = Per, Lastname = Crowo, Gender = MALE, position = FullStack, salary = 802500],
Employee [Name = Mona, Lastname = Aarsen, Gender = FEMALE, position = BackEnd, salary = 588500],
Employee [Name = Lise, Lastname = Aanstad, Gender = FEMALE, position = FrontEnd, salary = 695500],
Employee [Name = Jurgen, Lastname = Hansen, Gender = MALE, position = FrontEnd, salary = 588500]]
Increase salaries < 600_000 by INCREASED_LOW_SALARY
[
Employee [Name = Tom, Lastname = Hansen, Gender = MALE, position = Boss, salary = 1123500],
Employee [Name = Kari, Lastname = Nielsen, Gender = THEY, position = Sales, salary = 618500],
Employee [Name = Ole, Lastname = Karlsen, Gender = MALE, position = Sales, salary = 618500],
Employee [Name = Per, Lastname = Crowo, Gender = MALE, position = FullStack, salary = 802500],
Employee [Name = Mona, Lastname = Aarsen, Gender = FEMALE, position = BackEnd, salary = 618500],
Employee [Name = Lise, Lastname = Aanstad, Gender = FEMALE, position = FrontEnd, salary = 695500],
Employee [Name = Jurgen, Lastname = Hansen, Gender = MALE, position = FrontEnd, salary = 618500]]

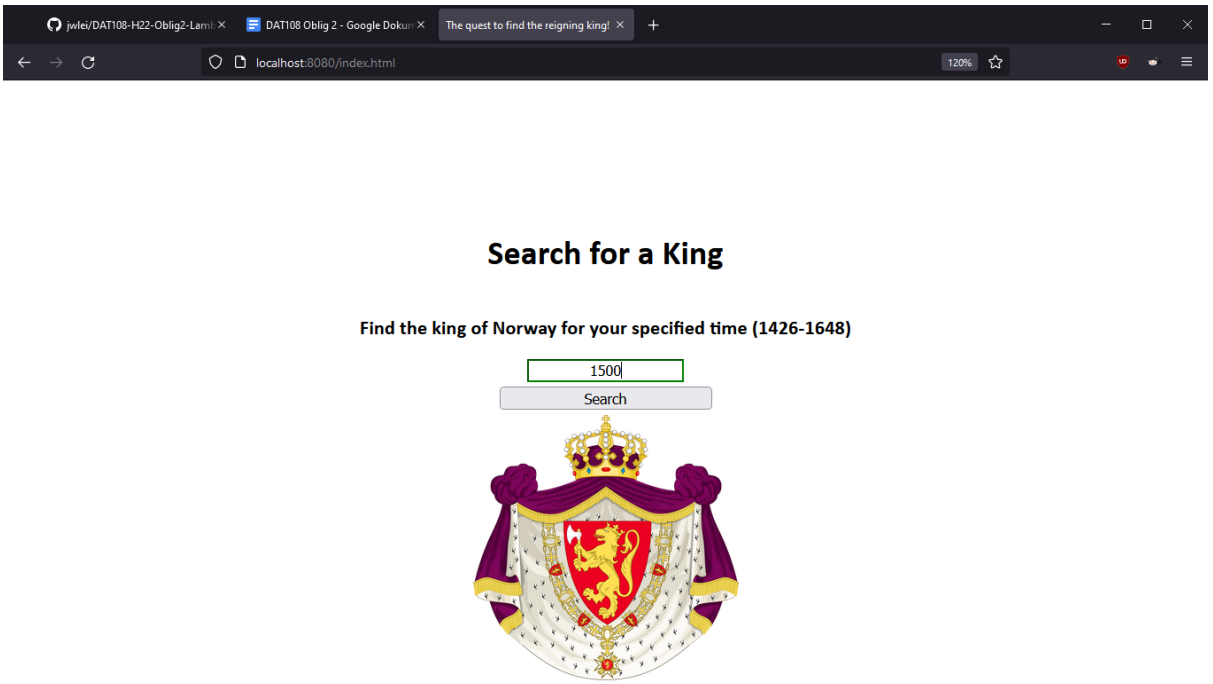

Run:
Main
Increase salary by 15% if the employee is MALE
[
Employee [Name = Tom, Lastname = Hansen, Gender = MALE, position = Boss, salary = 1292025],
Employee [Name = Kari, Lastname = Nielsen, Gender = THEY, position = Sales, salary = 618500],
Employee [Name = Ole, Lastname = Karlsen, Gender = MALE, position = Sales, salary = 711275],
Employee [Name = Per, Lastname = Crowo, Gender = MALE, position = FullStack, salary = 922875],
Employee [Name = Mona, Lastname = Aarsen, Gender = FEMALE, position = BackEnd, salary = 618500],
Employee [Name = Lise, Lastname = Aanstad, Gender = FEMALE, position = FrontEnd, salary = 695500],
Employee [Name = Jurgen, Lastname = Hansen, Gender = MALE, position = FrontEnd, salary = 711275]]
Process finished with exit code 0

Oppgave 3


Run:
Main
C:\Users\jolei\.jdks\corretto-17.0.4.1\bin\java.exe ...
[INITIAL LIST] -
[
Employee [Name = Tom, Lastname = Hansen, Gender = MALE, position = Boss, salary = 1000000],
Employee [Name = Kari, Lastname = Nielsen, Gender = THEY, position = Sales, salary = 500000],
Employee [Name = Ole, Lastname = Karlsen, Gender = MALE, position = Sales, salary = 500000],
Employee [Name = Per, Lastname = Crowo, Gender = MALE, position = FullStack, salary = 700000],
Employee [Name = Mona, Lastname = Aarsen, Gender = FEMALE, position = BackEnd, salary = 500000],
Employee [Name = Lise, Lastname = Aanstad, Gender = FEMALE, position = FrontEnd, salary = 600000],
Employee [Name = Jurgen, Lastname = Hansen, Gender = MALE, position = FrontEnd, salary = 500000]]
[TASK A] - The list consisting of only lastnames is:
[Aanstad, Aarsen, Crowo, Hansen, Hansen, Karlsen, Nielsen]
[TASK B] - The number of FEMALE employees is 2
[TASK C] - The average salary for FEMALE employees is 550000
[TASK D] - The list of employees after [Boss] has received a 7 percent increase in salary:
[
Employee [Name = Tom, Lastname = Hansen, Gender = MALE, position = Boss, salary = 1070000],
Employee [Name = Kari, Lastname = Nielsen, Gender = THEY, position = Sales, salary = 500000],
Employee [Name = Ole, Lastname = Karlsen, Gender = MALE, position = Sales, salary = 500000],
Employee [Name = Per, Lastname = Crowo, Gender = MALE, position = FullStack, salary = 700000],
Employee [Name = Mona, Lastname = Aarsen, Gender = FEMALE, position = BackEnd, salary = 500000],
Employee [Name = Lise, Lastname = Aanstad, Gender = FEMALE, position = FrontEnd, salary = 600000],
Employee [Name = Jurgen, Lastname = Hansen, Gender = MALE, position = FrontEnd, salary = 500000]]


Run:
Main
[TASK E] - It is [true] that someone has a salary > 800.000
[TASK F] - Printed using a pre-created toString() method in the Employee-class
[
Employee [Name = Tom, Lastname = Hansen, Gender = MALE, position = Boss, salary = 1070000],
Employee [Name = Kari, Lastname = Nielsen, Gender = THEY, position = Sales, salary = 500000],
Employee [Name = Ole, Lastname = Karlsen, Gender = MALE, position = Sales, salary = 500000],
Employee [Name = Per, Lastname = Crowo, Gender = MALE, position = FullStack, salary = 700000],
Employee [Name = Mona, Lastname = Aarsen, Gender = FEMALE, position = BackEnd, salary = 500000],
Employee [Name = Lise, Lastname = Aanstad, Gender = FEMALE, position = FrontEnd, salary = 600000],
Employee [Name = Jurgen, Lastname = Hansen, Gender = MALE, position = FrontEnd, salary = 500000]]
[TASK F cont.] - Printed using a stream with a .forEach call
Employee [Name = Tom, Lastname = Hansen, Gender = MALE, position = Boss, salary = 1070000]
Employee [Name = Kari, Lastname = Nielsen, Gender = THEY, position = Sales, salary = 500000]
Employee [Name = Ole, Lastname = Karlsen, Gender = MALE, position = Sales, salary = 500000]
Employee [Name = Per, Lastname = Crowo, Gender = MALE, position = FullStack, salary = 700000]
Employee [Name = Mona, Lastname = Aarsen, Gender = FEMALE, position = BackEnd, salary = 500000]
Employee [Name = Lise, Lastname = Aanstad, Gender = FEMALE, position = FrontEnd, salary = 600000]
Employee [Name = Jurgen, Lastname = Hansen, Gender = MALE, position = FrontEnd, salary = 500000]
[TASK G] - The lowest salary of all employees is:
Optional[
Employee [Name = Kari, Lastname = Nielsen, Gender = THEY, position = Sales, salary = 500000]]
[TASK G cont.] - The employees sharing the lowest salary is:
[
Employee [Name = Kari, Lastname = Nielsen, Gender = THEY, position = Sales, salary = 500000],
Employee [Name = Ole, Lastname = Karlsen, Gender = MALE, position = Sales, salary = 500000],
Employee [Name = Mona, Lastname = Aarsen, Gender = FEMALE, position = BackEnd, salary = 500000],
Employee [Name = Jurgen, Lastname = Hansen, Gender = MALE, position = FrontEnd, salary = 500000]]
The sum of numbers [1, ..., < 1000] divisible by 3 or 5 is: 233168
Process finished with exit code 0

Oppgave 4 (Frivillig)



jwlei/DAT108-H22-Oblig2-Lami | DAT108 Oblig 2 - Google Dokum | Search result

localhost:8080/search?year=1500 120%

Search for a King

In the year of 1500, King Hans ruled over Norway.

He was born 1455, and ruled from 1482 to 1513.

Do another search