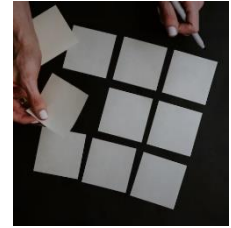


# Opgave: Assignment Manager



Denne opgave træner problemløsning. Den er lidt tricky, men brug hjernen, vær kreativ og giv dig først og fremmest i kast med nogle forsøg for at løse opgaven. Du lærer en masse i processen.

PS 1: Lav det som "rugbrødskodning", hvor du er nødt til at tænke algoritmen igennem selv. Der findes automatiske værktøjer til det (som I får senere) – men pointen er at du (evt. sammen med din studiegruppe) knækker nødden selv.

PS 2: Løsningen er direkte brugbar i det projekt I får efter efterårsferien 😊

Du skal oprette nogle Assignment (lektie)-objekter og indsætte dem i en ArrayList af assignments sorteret efter hver assignments deadline, som er en LocalDateTime.

VIGTIGT: Hvis du kender til en måde at sætte dette op forholdsvis enkelt, så du med ét metodekald kan klare opgaven, så *glem dette et øjeblik* og prøv at løse opgaven *uden* denne fremgangsmåde. Opgavens pointen er at træne computational thinking. Det andet kommer senere på semesteret.

En event-arrangør har en liste af events, og han har brug for at listen altid er i kronologisk rækkefølge, så de tidligste events står først i listen og de seneste står sidst i listen.

1. Opret klassen Event med attributterne:
  - a. LocalDateTime deadline
  - b. String name (som er en kort beskrivelse af lektien – for enkeltheds skyld)
2. Opret klassen EventManager med attributten:
  - a. ArrayList<Event> assignments
3. Skriv mail->run, så programmet:
  - a. Instantierer assignments (som en tom ArrayList<Assignment>).
  - b. Opretter 10.000 assignments med tilfældig deadline (inden for år 2023 eller 2024) samt tilfældigt navn (for eksempel fagene Programming, System Development, Organization og Technology samt opgavetyperne Solve assignment, Prepare presentation, Study curriculum, Solve challenge og Project work).

Hver enkelt assignment-objekt skal indsættes i listen (assignments) på det sted, hvor den passer ind ift. deadline, så dine lektier altid står i rækkefølge efter deadline.

TIP: Lav 10 post-its med tilfældige deadlines og leg computer, så du forstår hvordan algoritmen skal "tænke".

- c. Udskriver listen i den rækkefølge lektierne er blevet indsat.

Se eksempel på udskrift på næste side.

C:\Users\PAAG\jdk\openjdk-20.0.1\bin\java.exe "-javaagent:C:\Program File:

2023-01-01T08:15: Programming: Solve assignment, page 1078  
2023-01-01T08:30: System development: Prepare presentation, page 472  
2023-01-01T08:45: Organization: Study curriculum, page 1083  
2023-01-01T09:15: Programming: Project work, page 235  
2023-01-01T10:00: Organization: Project work, page 195  
2023-01-01T10:15: System development: Project work, page 557  
2023-01-01T10:15: Technology: Prepare presentation, page 682  
2023-01-01T10:15: Technology: Study curriculum, page 169  
2023-01-01T10:30: Programming: Solve challenge, page 708  
2023-01-01T10:45: Technology: Solve challenge, page 136  
2023-01-01T12:45: Organization: Prepare presentation, page 969  
2023-01-01T13:00: System development: Solve assignment, page 369  
2023-01-01T13:30: Programming: Project work, page 747  
2023-01-01T13:45: Organization: Prepare presentation, page 823  
2023-01-01T15:30: Organization: Solve assignment, page 1110  
2023-01-02T08:00: System development: Solve assignment, page 754  
2023-01-02T08:30: Technology: Solve challenge, page 706  
2023-01-02T08:30: Technology: Project work, page 146  
2023-01-02T08:45: Organization: Solve assignment, page 144  
2023-01-02T10:00: System development: Project work, page 1155  
2023-01-02T10:30: Organization: Solve assignment, page 460  
2023-01-02T11:30: System development: Project work, page 685  
2023-01-02T13:00: System development: Project work, page 342  
2023-01-02T13:15: Technology: Project work, page 465  
2023-01-02T13:15: Organization: Project work, page 849  
2023-01-02T14:15: System development: Solve assignment, page 165  
2023-01-02T14:15: System development: Study curriculum, page 550  
2023-01-02T14:15: Technology: Solve challenge, page 368  
2023-01-02T15:00: Technology: Solve assignment, page 661  
2023-01-02T15:30: Programming: Project work, page 825  
2023-01-02T15:30: Programming: Project work, page 894  
2023-01-03T09:00: Organization: Prepare presentation, page 974  
2023-01-03T09:30: Organization: Project work, page 135  
2023-01-03T10:00: Programming: Project work, page 961  
2023-01-03T10:15: Technology: Prepare presentation, page 348  
2023-01-03T10:30: Organization: Prepare presentation, page 590  
2023-01-03T11:00: System development: Solve assignment, page 582  
2023-01-03T11:15: Technology: Solve assignment, page 223  
2023-01-03T12:00: System development: Solve challenge, page 1069  
2023-01-03T12:00: Technology: Solve challenge, page 1080  
2023-01-03T12:45: Programming: Project work, page 949  
2023-01-03T14:15: Programming: Prepare presentation, page 906  
2023-01-03T14:30: Programming: Project work, page 229  
2023-01-03T14:30: Programming: Study curriculum, page 1137  
2023-01-03T14:30: Technology: Project work, page 325  
2023-01-04T08:30: Programming: Solve challenge, page 976  
2023-01-04T09:30: Technology: Study curriculum, page 871  
2023-01-04T10:30: Technology: Solve challenge, page 391  
2023-01-04T11:30: System development: Prepare presentation, page 736  
2023-01-04T11:45: Programming: Study curriculum, page 886  
2023-01-04T12:45: System development: Project work, page 741  
2023-01-04T14:00: System development: Project work, page 823  
2023-01-04T14:00: Programming: Study curriculum, page 207  
2023-01-04T14:15: System development: Study curriculum, page 720  
2023-01-04T15:00: Organization: Study curriculum, page 557  
2023-01-05T08:30: Programming: Prepare presentation, page 197  
2023-01-05T09:30: Organization: Prepare presentation, page 1110  
2023-01-05T09:45: Organization: Solve challenge, page 1014  
2023-01-05T10:00: Organization: Solve assignment, page 317  
2023-01-05T10:15: Organization: Prepare presentation, page 649