

#### Taks 4.

At practise 12 we have learned a few tools to analyze memory mapping and usage of a process. (Tools are: system monitor, top,ps,pstree,pmap, smaps file)

Please, analyze your solution from task 3, and do the following.

- a) Run your solution on 12 100,000,000, wait 15-30 sec, get the “smaps” and attach it to your submission,name it **solution\_smaps**
- b) Explain in your worlds, how much memory does your application uses, and how it's distributed between components of your app.
- c) Provide evidence from your code ,why and how much memory did you allocate.
- d) Provide evidence of the supporting system memory use, and explain it.
- e) If you use complicated command line options (like piping grep), provide the exact cmd line you have used, and explain the output. If needed, you can use BASH or Python script. If used, must be attached to the solution.

Administrative details:

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What you need to submit: **only 2 files: solution\_smaps and explanation.pdf (and script if used )**

- 1) By evidence I mean a screenshot of the output you get from cmd you are speaking about. Save it inside the pdf document with explanation.
- 2) Providing a proof from your code, provide the lines and the line numbers you are speaking about, so we can refer to if needed. Copy them to the explanation.pdf file.
- 3) Submit your explanation in an **explanation.pdf** file. No other formats will be accepted.
- 4) Zip (not RAR/7z, etc) your 2 files, name it **id.zip** or **id1\_id2.zip** and upload to moodle. Files in wrong archive will lose 20 points
- 5) Don't wait for the last day to submit your work. No excuses like “pc fall from 5-th floor, water ruined the memory, windows update brooked the file system” and so on will be accepted. Verify on the moodle website that the work is submitted. You may (but not have to) provide a screenshot of the submission
- 6) If you are late with the submitting and have a good reason (Reserves, seeks, wedding, etc.), you have to provide evidence for that, and you can not submit with another person who is your pair, but don't have any reason for being late. The penalty for being late without a reason will be 10 points for a day, and you **MUST** update your trainer about that, and follow the instructions if they exist.
- 7) A screenshot from camera/phone is not accepted.
- 8) Once you got marks, and you are not satisfied, you can apply to [os2021targilim@gmail.com](mailto:os2021targilim@gmail.com) for clarifications, note that it can take a few days to get an answer, it's not 24/7 support service