1. (12 p)

   (a) (4 p) What is pure demand paging?

   (b) (4 p). Can Belady's anomaly be observed for the reference string 1, 2, 3, 4, 1, 2, 5, 1, 2, 3, 4, 5 when moving from 3 to 4 frames? Show why.

   (c) (4 p). What does the term "locality" means in the context of a process execution? What measures can be taken by an OS to take advantage of localities?