Scenario

Implementation of FIFO (First in first out) and LRU (Least Recently Used) is compared with the OPR (Optimal page replacement algorithm).

Optimal page replacement algorithm is a theoretical page replacement algorithm.

It is not practically possible because we don't know the order in which the user will demand for pages.

This is made practical to some extent using Machine Learning.

Looking at the past behaviour or pattern in which the user requested for pages, the order in which the next pages will be requested is determined.

User's past behaviour is stored in user.data file.

Using this, we determine the page that will not be used for the maximum amount of time and whenever a page fault occurs this page will be replaced.