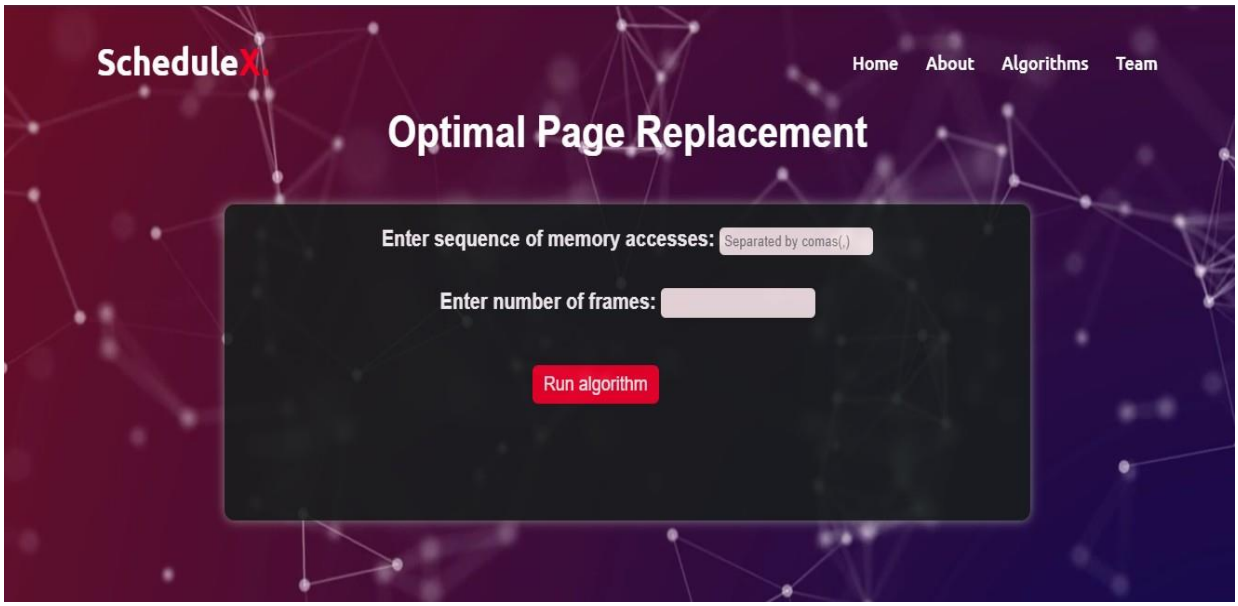
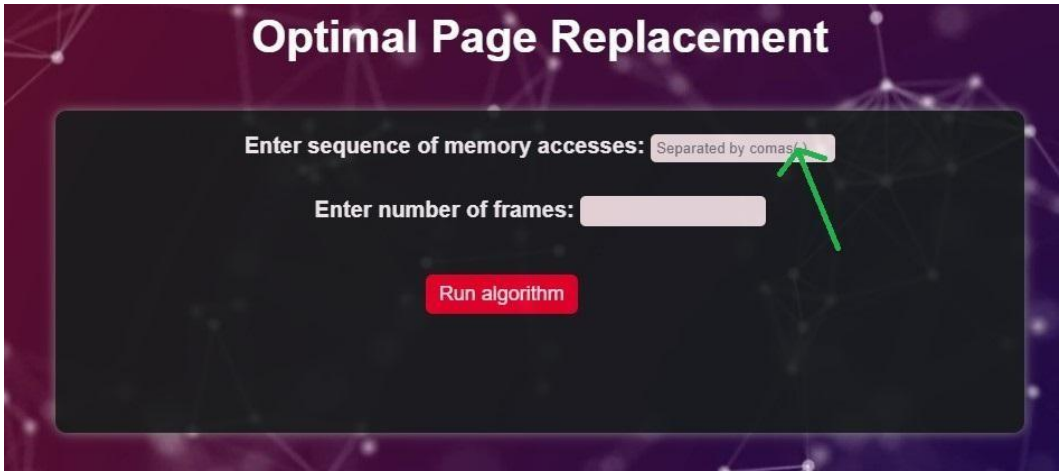
Welcome to the Optimal Page Replacement Algorithm Simulator! This simulator allows you to simulate the behaviour of the Optimal Page Replacement Algorithm, which is used to determine which page to evict from memory when a page fault occurs.

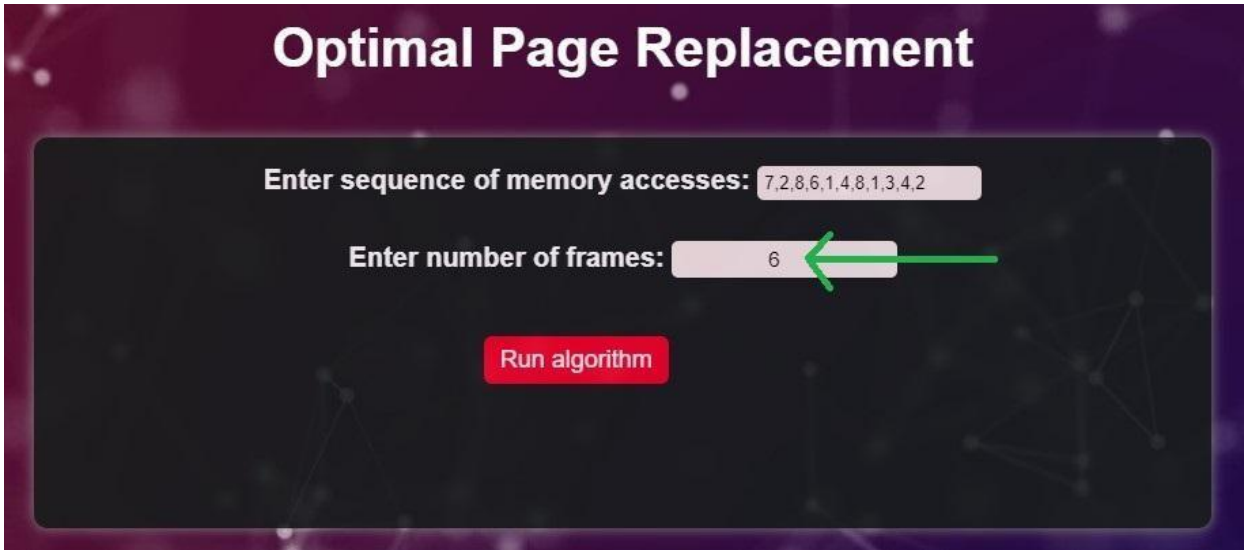


Instructions:

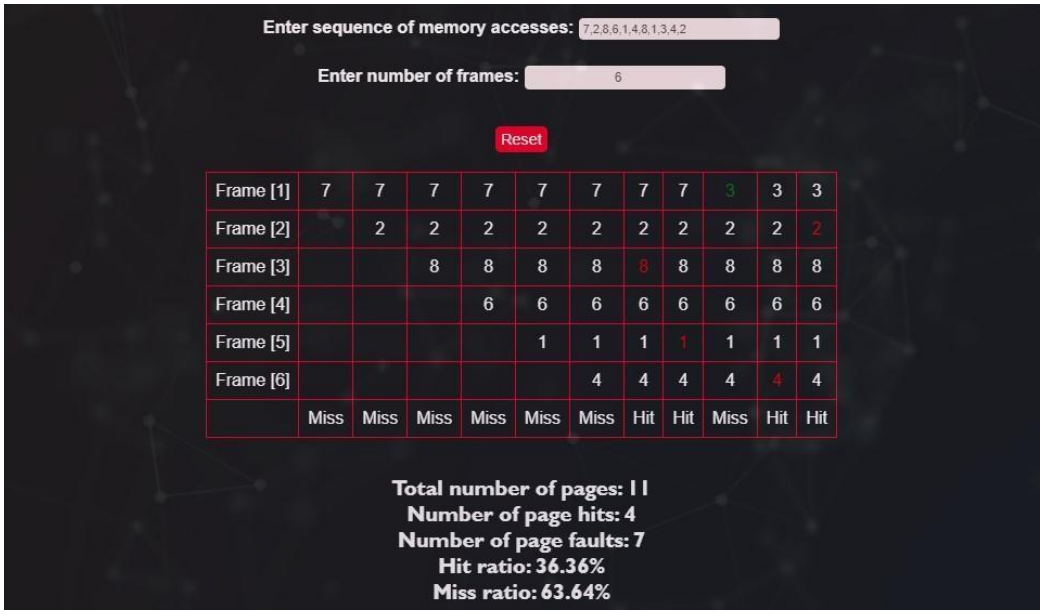
1. Start by entering the sequence of memory accesses into the '**Enter sequence of Memory accesses**' field. The sequence should be comma-separated ONLY.



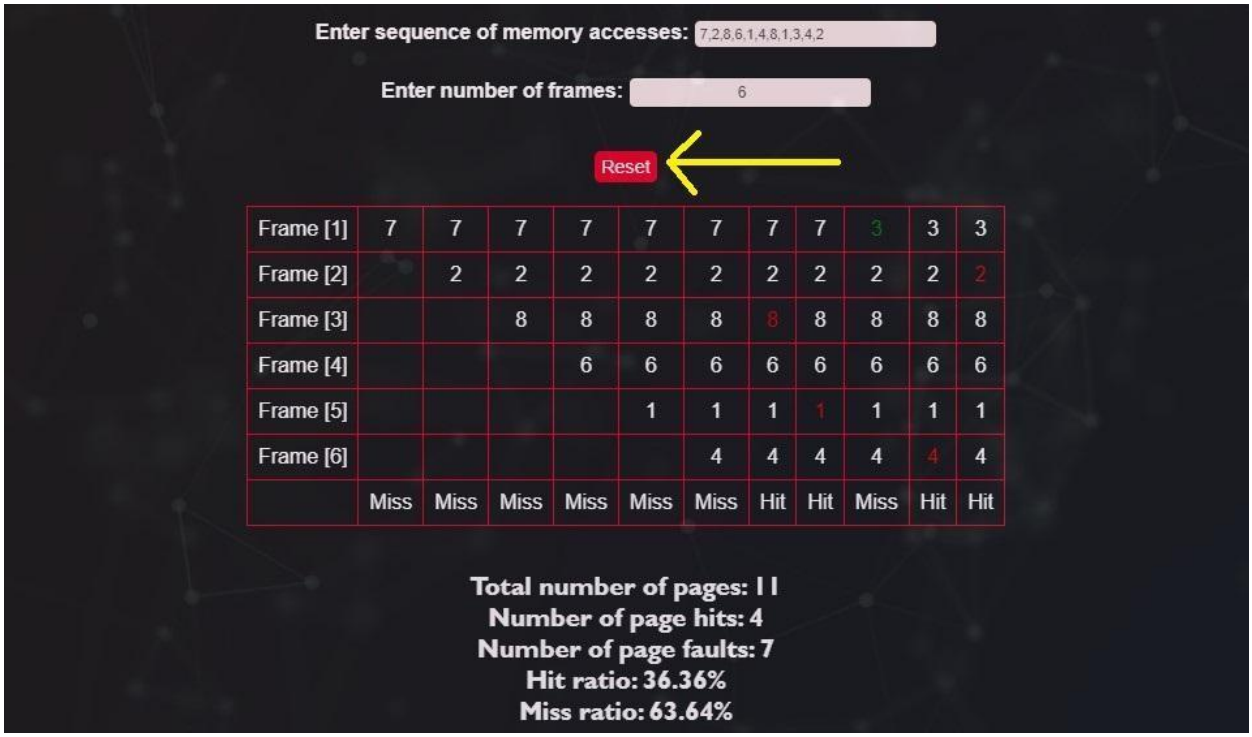
2. Then, enter the number of frames into the '**Enter number of frames**' field. This should be a single non-negative integer value.



3. After you have entered the sequence and the number of frames, click on the 'Run Algorithm' button to execute the algorithm. The simulator will show a table that displays HIT and MISS for each page.
It will also show the total number of pages, number of page hits and misses, hit ratio and miss ratio.



4. To start the simulation again with a different sequence and number of frames, click on the **'Reset**' button.



Note: The Optimal Page Replacement Algorithm is an optimal algorithm for page replacement, as it evicts the page that will not be used for the longest period of time. However, it is not practical to implement in real systems due to the computational overhead required to predict future memory accesses.

Enjoy the simulation and have fun exploring the behavior of the Optimal Page Replacement Algorithm!