## **Recently Viewed Items**

[This problem may have been done in the class. Whatever the instructor taught you supersedes the following]

Design product view history feature for full-featured high-traffic eCommerce website like Amazon.com

Use case : user comes to Amazon, browses a number of products, users goes back to home page : display all N recently viewed items

- \* Define API/Object Model
- \* Backend service has to store all data in memory : no database available
- \* Write an efficient data structure/algorithm that is able to process updates in o(1) time and retrieve history in o(n) time, where n is number of recently viewed items