Project Algorithms & Datastructures

Group 35

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**Collaborative Filtering**

**Scenario 0:** A HashMap is useful because it provides key-value access to data.

Other options are stacks, queues and dictionaries.

Advantages of using HashMaps are:

Disadvantages of using HashMaps are:

**Scenario 2:** The cosine distance is totally wrong when …

**Scenario 3:** When a movie is not rated, there is a problem. We can solve it by …

**Scenario 4:**

**Content Based Filtering**

**Scenario 0:** Idem as scenario 0 in CollaborativeFiltering.

**Scenario 1:** - The complexity of Dynamic1 is O(n5) in worst case.

- A worst case scenario is that all the letters in String s are the same. There will be may (equal) SquareSubsequences. The longest SquareSubsequence will have a length of n when n is even or n-1 if n is uneven, with n = s.lenght();

- The complexity of Dynamic2: not implemented