

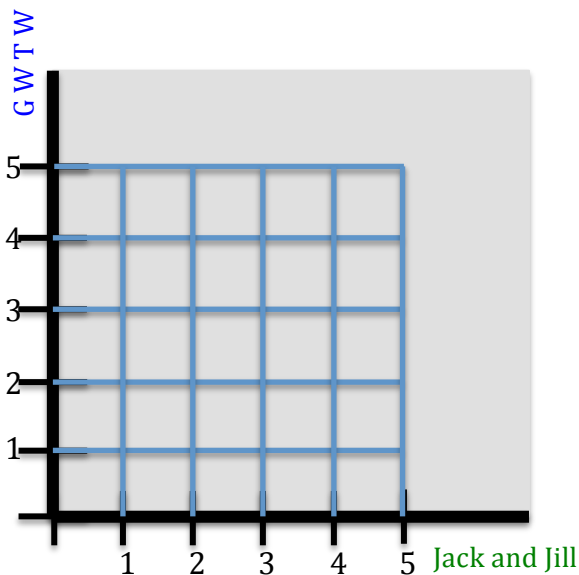
08 – Recommender Systems – Sep 26, 2016

Assume the following ratings of movies by 6 users (A-F).

	The Matrix	Gone with the Wind	Jack and Jill	Planes	Rocky IV
Alice	2	5	2	4	2
Bob	3		1	4	2
Christine	4	5	2	5	3
David	5		2	2	4
Elaine	5	3	1		3
Frank		3	1	3	

**(Q1)**

Draw the similarity among all users, when considering *Gone with the Wind* and *Jack and Jill*.



**(Q2)**

Compute  $\text{distance}(\text{Christine}, \text{Frank})$ ,  $\text{distance}(\text{David}, \text{Frank})$ , and  $\text{distance}(\text{Elaine}, \text{Frank})$ . Who has the highest distance from Frank?

$\text{distance}(\text{Alice}, \text{Frank}) = 4$

$\text{distance}(\text{Bob}, \text{Frank}) = 1$

$\text{distance}(\text{Christine}, \text{Frank}) =$

$\text{distance}(\text{David}, \text{Frank}) =$

$\text{distance}(\text{Elaine}, \text{Frank}) =$