Homework

Chapter 7 Recommending Movies to Watch

(30 points) Consider four users (A - D) and three movies (I - III), with ratings as indicated below. The training set is denoted with black, the test set is denoted with blue, and the unknown entries have "?."

	Ι	Π	III
Α	4	5	2
В	?	5	3
С	3	2	5
D	5	4	3

- 1. Compute the **naïve** predictor.
- 2. Compute the RMSE on the test set for the naïve predictor
- 3. What is the bias of Movie III?
- 4. Compute the **baseline** predictor.
- 5. Compute cosine similarity between Movies I and III, for the baseline errors? What can you conclude?
- 6. Compute the **neighborhood** predictor
- 7. Compute the RMSE on the **test set** for the neighborhood predictor.

•