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**<><><>PROBLEM 1<><><>**

Alpha is: 3.60335

MSE is: 2.6178318925

**<><><>Problem 2<><><>**

Item bias of I102776733 = 0.112019551218

User bias of U566105319 = -1.05876312691

MSE of predictor against the test data: 1.60057067306

**<><><>Problem 3<><><>**

Jaccard similarity between the users 'U229891973' and 'U622491081' is: 0.75

Users with the highest Jaccard similarity to 'U622491081' are: ['U359587607', 'U687939146', 'U096951499', 'U296575297', 'U387971231', 'U300899166']

**<><><>Problem 4<><><>**

Fitted value of alpha is: 0.533185849504

MSE: 74.4869061806

Absolute error: 18362.4004226

The fitted parameters are [a, Bias1, Bias2]: [3.45247397e-01, 2.69473721e-04, 4.40200036e-02]

The MSE is: 50.4414739502

The absolute error is: 16651.613061