In this assignment, you need to build a Bayesian Knowledge Tracing model for data file Asgn4-dataset.csv. Week 2: Diagnostic Metrics and Cross-Validation This data set is a subset of the data set used in Week 3: Feature Engineering and Behavior Detection Baker, R.S.J.d., Corbett, A.T., Roll, I., Koedinger, K.R. (2008) Developing a Generalizable Detector of When $Students\ Game\ the\ System.\ User\ Modeling\ and\ User-Adapted\ Interaction,\ 18,\ 3,\ 287-314.$ Week 4: Knowledge Inference and Knowledge Structures This paper can be found at http://www.columbia.edu/~rsb2162/USER475.pdf **Getting Started** This data set's variables are: Lectures · ID - a unique ID for every student action in the Cognitive Tutor used CTAT Assignment Week 4 Assignment due Aug 26, 2015 at 16:00 UTC · Lesson - the tutor lesson the action comes from **3** Bazaar Assignment Week 4 \cdot Student – a deidentified ID for the student due Aug 26, 2015 at 16:00 UTC Week 4 General Discussion \cdot KC – the knowledge component (skill) involved \cdot ltem – the problem step in the learning system → Week 5: Relationship Mining · Right – is the student action right (1) or not right (0) · Firstattempt – is this the student's first attempt at the problem step (1)? \cdot Time – how long did the student attempt take? You should complete questions 1-9 of this assignment in Microsoft Excel, or a similar spreadsheet program. Question 10 should be completed using Java and BKT-BF, available at

http://www.columbia.edu/~rsb2162/BKT-BruteForce.zip

WEEK 4 CTAT ACTIVITY (EXTERNAL RESOURCE) (1.0 points possible)