Homework I

- 1. (10%) Implement the Erlang-B formula, and calculate the total offered traffic load for the following system parameters:
 - Channel number: 1~20, 200~220
 - Blocking rate: 1%, 3%, 5%, 10%
- 2. (10%) (a) Could it be possible that the total offered traffic load is larger than the number of available channels? Why?
 - (b) How to determine the traffic that has been served?
- 3. (10%) Assume that there are 600 channels equally shared by 1) one, 2) two, or 3) three operators by using the frequency reuse factor N = 5.
 - Find the maximum offered traffic load per cell for the three cases with the blocking rate equal to 1%, 3%, 5%, or 10%
 - Which case (one, two, or three operators) is more efficient?
- 助教: EECS Room 605, <u>TWNTHUCOM5170@gmail.com</u>
- Due Date: 10/18 (You shall submit your paper report during the class. You shall also mail your program to the TA.)