Name: ＿＿＿＿＿＿＿ **Seat#:** ＿＿＿＿＿ **Academic#:** ＿＿＿＿＿

1. (30 pts.) Which Way is Better when Using "settablenum" in FlexSim? Why?

   (1)
   > settablenum("in_output1",4,1, gettablenum("in_output1",2,1)/gettablenum("in_output1",1,1));

   (2)
   > double ratio1 = gettablenum("in_output1",2,1)/gettablenum("in_output1",1,1);
   > settablenum("in_output1",4,1, ratio1);

2. (70 pts.) Check the C.I. Result for p1

   - Build a Flexsim model: see below figure (You can down load the system)
   - (10 pts.) Source: Choose "Arrival Sequence": Arrival 1, Quantity 200 (you need to do)
   - Queue: Choose "First available" (default)
   - (10 pts.) Processor: Change "First available" to "By Probability". Set up 90% to Port 1 (name: Sink) and the rest to Port 2 (Name: Defect 1) (you need to do)
   - Record the number of items to Port1 and Port2 into Global Table, and count the percent of items goes to Port1. (default)
   - Two global Tables: in_output1 and in_output2. (default)
   - Performance Measure: p1, the fourth row of Global table in_output1 (default)
   - (10 pts.) Run Experiment to obtain C.I.. (You need to do)
   - (40 pts.) Comment to conclude that whether the percent of items goes to Port1 is 90% or not. (Run Time: 250, Replications: 5000.) (You need to do). You may take a look of the code for the default "By probability".