MthSc 985: Topics in Discrete Mathematical Biology (Fall 2011) Quiz 2 (20 points)

Instructions: Answer each of the following questions completely. If something is unclear, or if you have any questions, then please ask. Good luck!

1. (4 points) Draw a Young tableau with 3 rows that is not standard.

2. (8 points) Construct a Young tableau by RSK-inserting the following elements in the following order: 3, 2, 1, 6, 4, 5.

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3. (8 points) Find the unique Young tableau T_i (at right) with the given shape such that inserting a number into T_i via RSK gives T_{i-1} (at left).



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