**PF LETURE 15**

**Dynamic 2d Arrays /Regrow rows/columns**

**Q1. a)** Write a function that reads a comma separated lists of names (the last name first) from a file in a dynamic 2d array and split it into two arrays of first names (storing all the first name) and last names (storing all the last names).

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| --- | --- | --- | --- | --- |
| Original list  -----------------------------  Ryan, Elizabeth  McIntyre, Osborne  DuMond, Kristin  Larson, Lois  Thorpe, Trinity  Ruiz, Pedro | First Name list  -----------------------------  Ryan  McIntyre  DuMond  Larson  Thorpe  Ruiz | Last Name list  --------------------------Elizabeth  Osborne  Kristin  Lois  Trinity  Pedro | First Name list (shifted)  -----------------------------  DuMond  Larson  Thorpe  Ruiz  Ryan  McIntyre | Last Name list  ---------------------------  Kristin  Lois  Trinity  Pedro  Elizabeth  Osborne |

**Q1 b)** Write another function to find the alphabetically smallest first names and shift the array until that first name move onto the top of the first name array. Also keep the last name of the smallest names at appropriate index