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2 . Getting to know the bash shell:

1. Using ssh, log into the remote system dandelion on dandelion.cs.utep.edu.
   1. **ssh {username}@dandelion.cs.utep.edu**
2. On that system find out
   1. how many users are logged in concurrently with you,
      1. **who**
   2. how long the system is already running since last rebooted,
      1. **uptime**
   3. what processors it has,
      1. **lscpu**
   4. how much RAM is available.
      1. **free -h**
3. On dandelion or a private Linux installation, open the file nanpa using less. The file contains quite a comprehensive list of North American phone number prefixes (first 6 digits, excluding +1), followed by the location this phone number prefix is attached to. For example, for 915220, the location El Paso TX is listed. Still inside less, find the entries for 907519, 503526 and a couple of other phone numbers you know in the country, as such your home phone, your parents’ phone, the phone of a loved one etc.
   1. **less nanpa.txt**
      1. **/907519**
         1. 907519**: 907519Anchorage AK**
      2. **/503526**
         1. 503526: **Pattern not found**
4. Find out how many lines connecting prefixes to locations are contained in the file nanpa. Which Linux command line tool do you use to count lines?
   1. **wc -l nanpa.txt**
5. List the first 17 lines of the nanpa file on command line. Also list the last 42 lines of the file. You can use the Linux tools head and tail for this task.
   1. Head**:** 
      1. **head -n 17 nanpa.txt**
         1. **201200Jersey City NJ**
         2. **201202Hackensack NJ**
         3. **201203Hackensack NJ**
         4. **201204Jersey City NJ**
         5. **201205Jersey City NJ**
         6. **201206Hackensack NJ**
         7. **201207Newark NJ**
         8. **201208Jersey City NJ**
         9. **201209Jersey City NJ**
         10. **201210Union City NJ**
         11. **201212Hackensack NJ**
         12. **201213Morristown NJ**
         13. **201214Hackensack NJ**
         14. **201215Bayonne NJ**
         15. **201216Jersey City NJ**
         16. **201217Jersey City NJ**
         17. **201218Hackensack NJ**
   2. Tail:
      1. **tail -n 42 nanpa.txt**
         1. **989921Saginaw MI**
         2. **989922Bay City MI**
         3. **989923Midland MI**
         4. **989924Alma MI**
         5. **989925Manistee Ri MI**
         6. **989926Midland MI**
         7. **989928Saginaw MI**
         8. **989929Bay City MI**
         9. **989932Durand MI**
         10. **989934Rose City MI**
         11. **989935Clare MI**
         12. **989936Owosso MI**
         13. **989938Grace Harbo MI**
         14. **989939Chester MI**
         15. **989941Midland MI**
         16. **989942West Branch MI**
         17. **989943Middleton MI**
         18. **989944Mount Pleas MI**
         19. **989945Ovid MI**
         20. **989946Standish MI**
         21. **989948Midland MI**
         22. **989949McBrides MI**
         23. **989953Mount Pleas MI**
         24. **989954Mount Pleas MI**
         25. **989956Mount Pleas MI**
         26. **989962Minden City MI**
         27. **989963Elkton MI**
         28. **989964Saginaw MI**
         29. **989965Gladwin MI**
         30. **989966Vanderbilt MI**
         31. **989967Remus MI**
         32. **989968Alma MI**
         33. **989971Saginaw MI**
         34. **989975Bad Axe MI**
         35. **989977Sebewaing MI**
         36. **989979St Johns MI**
         37. **989980Saginaw MI**
         38. **989981Hubbardston MI**
         39. **989983Vanderbilt MI**
         40. **989984East Tawas MI**
         41. **989992Saginaw MI**
         42. **989996Saginaw MI**

3. head and tail: