# Solution M3: Editors. Files. Streams

One possible solution could be:

1. cp /etc/services services
2. grep -E '^[#]' services > services\_comments.txt
3. grep -E '^[^#]' services > services\_wo\_comments.txt
4. grep -E '^[^#]\*udp' services > services\_udp.txt
5. vi services\_wo\_comments.txt
6. In normal (command) mode we enter /blackjack for CentOS and openSUSE, or /socks for Ubuntu and then hit Enter
7. In normal (command) mode we hit the keys dG (d and then Shift+g)
8. :w well-known-ports.txt
9. :q!
10. sed -n '1,100s/\//-/pg' well-known-ports.txt > 100-well-known-ports.txt

*Or (change the default delimiter to something else, for example @)*

sed -n '1,100s@/@-@pg' well-known-ports.txt > 100-well-known-ports.txt

1. cat > doc1.txt << EOF

10-IT-HQ

20-Accounting-HQ

30-Help Desk-Remote

40-Sales-HQ

EOF

1. cat > doc2.txt << EOF

10-B.Thomas

20-J.Foster

30-G.Smith

40-F.Hudson

EOF

1. join -t - -j 1 doc1.txt doc2.txt > doc3.txt

*Or (without spaces)*

join -t- -j1 doc1.txt doc2.txt > doc3.txt

1. cut -d - -f 3 doc3.txt | sort | uniq > locations.txt

*Or (without spaces in cut and skip uniq)*

cut -d- -f3 doc3.txt | sort -u > locations.txt

1. cut -d - -f 3 doc3.txt | sort | uniq | wc -l >> locations.txt

*Or (without spaces in cut and skip uniq)*

cut -d- -f3 doc3.txt | sort -u | wc -l >> locations.txt

1. find /etc -type f -size -200c -ls > small\_etc\_files.txt