**例题1：本案例要求熟悉课上的sed应用案例，并编写脚本anonftp.sh，实现以下功能：**

-通过yum安装vsftpd软件包

-修改vsftpd服务配置，开启匿名上传

-调整/var/ftp/pub目录权限，允许写入

-启动vsftpd服务，并设置开机自运行

#!/bin/bash

yum -y install vsftpd

cp /etc/vsftpd/vsftpd.conf{,.bak}

sed -i 's/#anon/anon/' /etc/vsftpd/vsftpd.conf

chmod 777 /var/ftp/pub

systemctl start vsftpd

systemctl enable vsftpd

grep ^anon /etc/vsftpd/vsftpd.conf

ls -ld /var/ftp/pub

**Homework：**

假设我们有这样一个待处理的文件data.txt，内容如下:

Steve Blenheim:238-923-7366:95 Latham Lane, Easton, PA 83755:11/12/56:20300\_x000B\_Betty Boop:245-836-8357:635 Cutesy Lane, Hollywood, CA ,91464:6/23/23:14500\_x000B\_Igor Chevsky:385-375-8395:3567 Populus Place, Caldwell, NJ 23875:6/18/68:23400\_x000B\_Norma Corder:397-857-2735:74 Pine Street, Dearborn, MI 23874:3/28/45:245700\_x000B\_Jennifer Cowan:548-834-2348:583 Laurel Ave., Kingsville, TX 83745:10/1/35:58900\_x000B\_Jon DeLoach:408-253-3122:123 Park St., San Jose, CA 04086:7/25/53:85100\_x000B\_Karen Evich:284-758-2857:23 Edgecliff Place, Lincoln, NB 92086:7/25/53:85100\_x000B\_Karen Evich:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200\_x000B\_Karen Evich:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200\_x000B\_Fred Fardbarkle:674-843-1385:20 Parak Lane, DeLuth, MN 23850:4/12/23:780900\_x000B\_Fred Fardbarkle:674-843-1385:20 Parak Lane, DeLuth, MN 23850:4/12/23:780900\_x000B\_Lori Gortz:327-832-5728:3465 Mirlo Street, Peabody, MA 34756:10/2/65:35200\_x000B\_Paco Gutierrez:835-365-1284:454 Easy Street, Decatur, IL 75732:2/28/53:123500\_x000B\_Ephram Hardy:293-259-5395:235 CarltonLane, Joliet, IL 73858:8/12/20:56700\_x000B\_James Ikeda:834-938-8376:23445 Aster Ave., Allentown, NJ 83745:12/1/38:45000\_x000B\_Barbara Kertz:385-573-8326:832 Ponce Drive, Gary, IN 83756:12/1/46:268500\_x000B\_Lesley Kirstin:408-456-1234:4 Harvard Square, Boston, MA 02133:4/22/62:52600\_x000B\_William Kopf:846-836-2837:6937 Ware Road, Milton, PA 93756:9/21/46:43500\_x000B\_Sir Lancelot:837-835-8257:474 Camelot Boulevard, Bath, WY 28356:5/13/69:24500\_x000B\_Jesse Neal:408-233-8971:45 Rose Terrace, San Francisco, CA 92303:2/3/36:25000\_x000B\_Zippy Pinhead:834-823-8319:2356 Bizarro Ave., Farmount, IL 84357:1/1/67:89500\_x000B\_Arthur Putie:923-835-8745:23 Wimp Lane, Kensington, DL 38758:8/31/69:126000\_x000B\_Popeye Sailor:156-454-3322:945 Bluto Street, Anywhere, USA 29358:3/19/35:22350\_x000B\_Jose Santiago:385-898-8357:38 Fife Way, Abilene, TX 39673:1/5/58:95600\_x000B\_Tommy Savage:408-724-0140:1222 Oxbow Court, Sunnyvale, CA 94087:5/19/66:34200\_x000B\_Yukio Takeshida:387-827-1095:13 Uno Lane, Ashville, NC 23556:7/1/29:57000\_x000B\_Vinh Tranh:438-910-7449:8235 Maple Street, Wilmington, VM 29085:9/23/63:68900

题目1：显示包含San的行

sed -n '/San/p' ./data.txt

题目2：显示以J开头的人名所在的行

sed -n '/^J/p' ./data.txt

题目3：显示700结尾的行

sed -n '/700$/p' ./data.txt

题目4：显示不包834的行

sed -n '/834/!p' ./data.txt

题目5：显示电话号码的区号为834的行

sed -n '/:834-/p' ./data.txt

题目6：显示这样的行:它包含一个大写字后跟四个小写字母,逗号,空格,和一个大写字母

sed -rn '/[A-Z][a-z]{4}, [A-Z]/p' ./data.txt

题目7：显示以K或k开头的行

sed -n '/^(Kk)/p' ./data.txt

题目8：显示工资为六位数的行

sed -rn '/[0-9]{6}$/p' ./data.txt

题目9：显示包括Lincoln或lincoln的行

sed -rn '/(Lincoln|lincoln)/p' ./data.txt

题目10：把Jon的名字改成Jonathan

sed -n 's#\bJon\b#Jonathan#p' ./data.txt

题目11：删除文件头3行内容

sed '1,3d' ./data.txt

题目12：显示5-10行

sed -n '5,10p' ./data.txt

题目13：把三个星\*\*\*添加到有Fred的行

sed -n '/^Fred/p' data.txt | sed 's/$/\*\*\*/'

题目14：删除空白行

sed '/^$/d' data.txt

案例2：把文本a.txt里的每一行的最后一个#替换为\*

sed -r 's/(.+)#/\1\*/' 1.txt

案例3：如何用一条命令对a.txt里的第2行和第4行增加注释#

sed '2s/^/#/;4s/^/#/' 1.txt

sed -e ‘2s/^/#/’ -e ‘4s/^/#/’ 1.txt

案例4：如何同时给每个电话号码前面加区号？

文本： tom 8542687 4662581

Joy 1562186 4587628

sed -r 's/([0-9]+)/020-\1/g' a.txt