1. Создать файл /home/user/test.txt командой touch.

```
alex@Redmi:~$ pwd
/home/alex
alex@Redmi:~$ touch test.txt
alex@Redmi:~$ ls -l
total 0
```

2. Заполнить файл любым текстом размером не менее 1000

alex@Redmi:~\frac{\pi}{2} echo "It goes without saying that humans mammals identifiable as those that stand upright and are comparatively advant ced and capable of detailed thought have pretty remarkable bodies, given all that they've accomplished. Furthermore, an especially intelligent human brain produced this text To be sure, humans have overcome predators, disease, and all sorts of other obstacles over thousands of years. The head, or the spherical body part that contains the brain and rests at the top of the human body, has quite a few individual organs and body parts on it. (It should quickly be mentioned that hair occupies the space on top of the head, and the ears, the organs responsible for hearing, are located on either side of the head.) From top to bottom, the eyebrows, or hori zontal strips of hair that can be found above the eye, are the first components of the head. The eyes are below them, and are round, orb-like organs that allow humans to see. The eyes make way for the nose, or an external sticking-out organ that plays an important part in the breathing and bacteria-elimination processes. Below that is the mouth, or a wide, cavernous organ that chews food, removes bacteria, helps with breathing, and more. The mouth contains teeth, or small, white-colored, pointed body parts used to chew food, and the tongue, or a red-colored, boneless organ used to chew food and speak." >test.txt

It goes without saying that humans mammals identifiable as those that are accompliated by the accompliance of the total accompliance of the total accompliance of the total accompliance of the three that the product of t

alex@Redmi:~\$ cat test.txt

It goes without saying that humans mammals identifiable as those that stand upright and are comparatively advanced and capable of d etailed thought have pretty remarkable bodies, given all that they've accomplished. Furthermore, an especially intelligent human br ain produced this text To be sure, humans have overcome predators, disease, and all sorts of other obstacles over thousands of year s. The head, or the spherical body part that contains the brain and rests at the top of the human body, has quite a few individual organs and body parts on it. (It should quickly be mentioned that hair occupies the space on top of the head, and the ears, the organs responsible for hearing, are located on either side of the head.) From top to bottom, the eyebrows, or horizontal strips of hair that can be found above the eye, are the first components of the head. The eyes are below them, and are round, orb-like organs the at allow humans to see. The eyes make way for the nose, or an external sticking-out organ that plays an important part in the breat hing and bacteria-elimination processes. Below that is the mouth, or a wide, cavernous organ that chews food, removes bacteria, helps with breathing, and more. The mouth contains teeth, or small, white-colored, pointed body parts used to chew food, and the tongue, or a red-colored, boneless organ used to chew food and speak.

3. Выполнить команду wc для созданного файла.

```
alex@Redmi:~$ wc test.txt
   1 231 1375 test.txt
```

4. Скопировать этот файл в другой каталог.

```
alex@Redmi:~$ cp test.txt test_direct
```

5. В исходном файле удалить случайным образом 200 символов.

```
alex@Redmi:~$ wc test.txt
   1 194 1175 test.txt
```

6. Выполнить команду diff для получившихся двух файлов.

```
i:~$ diff test.txt test direct/test.txt
Ic1

It ithout saying that humans mammals identifiable as those that stand upright and are comparatively advanced and capable of detailed thought have pretty remarkable bodies, given all that they've accomplished. Furthermore, an especially intelligent human brain produced this text To be sure, humans have overcome predators, disease, and all sortacles over thousands of years. The head, or the spherical body part that contains the brain and rests individual organs and body parts on it. (It should quickly be mentioned that hair occupies the space on top of the head, and the ears, the organs responsible for hearing, are located on either side of the head.) From , or horizontal strips of hair that can be found above the eye, are the first components of the head. The eyes are below them, and are round, orb-like organs that allow humans to see. The eyes make way for the nose, or an external thing and bacteria-el imination processes. Below that is the mouth, or a wide, cavernous organ that chews food, removes bacteria, helps with breathing, a nd more. The mouth contains teeth, or small, white-colored, pointed body parts used to chew food, and tongue, or a red-colored,
```

> It goes without saying that humans mammals identifiable as those that stand upright and are comparatively advanced and capable of detailed thought have pretty remarkable bodies, given all that they've accomplished. Furthermore, an especially intelligent human brain produced this text To be sure, humans have overcome predators, disease, and all sorts of other obstacles over thousands of ye ars. The head, or the spherical body part that contains the brain and rests at the top of the human body, has quite a few individua organs and body parts on it. (It should quickly be mentioned that hair occupies the space on top of the head, and the ears, the organs responsible for hearing, are located on either side of the head.) From top to bottom, the eyebrows, or horizontal strips of hair that can be found above the eye, are the first components of the head. The eyes are below them, and are round, orb-like organs that allow humans to see. The eyes make way for the nose, or an external sticking-out organ that plays an important part in the bre athing and bacteria-elimination processes. Below that is the mouth, or a wide, cavernous organ that chews food, removes bacteria, helps with breathing, and more. The mouth contains teeth, or small, white-colored, pointed body parts used to chew food, and the ton gue, or a red-colored, boneless organ used to chew food and speak.

7. Выполнить побайтовое сравнение двух файлов.

```
alex@Redmi:~$ cmp test.txt test_direct/test.txt
test.txt test_direct/test.txt differ: byte 4, line 1
```

8. Напечатайте первый файл в восьмеричном формате.

```
alex@Redmi:~$ od test.txt
0000000 072111 064440 064164 072557 020164 060563 064571 063556
0000020 072040 060550 020164 072550 060555 071556 066440 066541
0000040 060555 071554 064440 062544 072156 063151 060551 066142
0000060 020145 071541 072040 067550 062563 072040 060550 020164
0000100 072163 067141 020144 070165 064562 064147 020164 067141
0000120 020144 071141 020145 067543 070155 071141 072141 073151
0000140 066145 020171 062141 060566 061556 062145 060440 062156
0000160 061440 070141 061141 062554 067440 020146 062544 060564
0000200 066151 062145 072040 067550 063565 072150 064040 073141
0000220 020145 071160 072145 074564 071040 066545 071141 060553
0000240 066142 020145 067542 064544 071545 020054 064547 062566
0000260 020156 066141 020154 064164 072141 072040 062550 023571
0000300 062566 060440 061543 066557 066160 071551 062550 027144
0000320 043040 071165 064164 071145 067555 062562 020054 067141
0000340 062440 070163 061545 060551 066154 020171 067151 062564
0000360 066154 063551 067145 020164 072550 060555 020156 071142
0000400 064541 020156 071160 062157 061565 062145 072040 064550
0000420 020163 062564 072170 052040 020157 062542 071440 071165
0000440 026145 064040 066565 067141 020163 060550 062566 067440
```

9. Посмотреть логи ядра.

10. Посмотреть список сетевых интерфейсов.

```
alex@Redmi:~$ ls -l /sys/class/net
total 0
-rw-r----- 1 root root 4096 Oct 8 09:23 bonding_masters
lrwxrwxrwx 1 root root 0 Oct 8 09:23 eth0 -> ../../devices/LNXSYSTM:00/LNXSYBUS:00/ACPI0004:00/VMBUS:00/12389a98-d711-4e42-8154
-a86cf2b10ac4/net/eth0
lrwxrwxrwx 1 root root 0 Oct 8 09:29 lo -> ../../devices/virtual/net/lo
```

```
alex@Redmi:~$ dpkg -l
Desired=Unknown/Install/Remove/Purge/Hold
| Status=Not/Inst/Conf-files/Unpacked/halF-conf/Half-inst/trig-aWait/Trig-pend
|/ Err?=(none)/Reinst-required (Status,Err: uppercase=bad)
|// Name Version Archi
                                                                                                                                                                                                                Architecture Description
                                                                                                                                                                                                                                                    add and remove users and groups user-space parser utility for AppArmor automatically generate crash reports for desymptom scripts for apport commandline package manager package management related utility programs bebian base system miscellaneous files Debian base system master password and group GNU Bourne Again SHell programmable completion for the bash shell Clients provided with BIND 9 DNS Lookup Utility
 ii adduser
ii apparmor
                                                                                               3.118ubuntu5
3.0.4-2ubuntu2.1
                                                                                                                                                                                                                 amd64
ii apport
ii apport-symptoms
ii apt
ii apt-utils
ii base-files
                                                                                                2.20.11-Oubuntu82.3
0.24
                                                                                                                                                                                                                all
all
                                                                                                2.4.8
                                                                                                                                                                                                                 amd64
                                                                                                                                                                                                                 amd64
ii
ii
           base-passwd
bash
                                                                                                3.5.52build1
5.1-6ubuntu1
                                                                                                                                                                                                                 amd64
                                                                                                                                                                                                                 amd64
                                                                                                1:2.11-5ubuntu1
1:9.18.1-1ubuntu1.2
1:9.18.1-1ubuntu1.2
           bash-completion
bind9-dnsutils
                                                                                                                                                                                                                 amd64
            bind9-host
                                                                                                                                                                                                                                                     DNS Lookup Utility
```

12. Сделать жесткую ссылку для первого файла.

```
alex@Redmi:~$ ls -i test.txt
29377 test.txt
alex@Redmi:~$ In test.txt linktest
alex@Redmi:~$ ls -i
29377 linktest 29377 test.txt 29366 test_direct
```

13. Узнать индексные дескрипторы ссылки и файла.

```
alex@Redmi:~$ ls -i test.txt linktest
29377 linktest 29377 test.txt
```