q1

a

ls -a /tmp

b

cp ~/csse2310/trunk/a4/\*.c ~/data

c

gcc -pthread /local/courses/csse2310/include -o webserver connections.c server.c /local/course/csse2310/lib csse2310a4

d

svn commit -m “Fixed bug 1234”

e

grep -n “nameserver” /etc/resolv.conf grep “nameserver” /etc/resolv.conf

f

grep -cv “tcp” /etc/services

g

grep “#define” ~/a3/hq.c >> defs

h

grep -c ‘\_’ defs > stderr grep -c “\_” defs >&2

i

grep -c “autocmd” /etc/vimrc > /tmp/vim/auto.count

j

ln ~ -s /local/courses/csse2310/bin/testa1.sh altest

ln -s /local/courses/csse2310/bin/testa1.sh ~/a1test

q2

a

double foo[5] = {0,1,3.14,2.718,1.618};

b

int\* foo(int, char\*\*);

c

char foo[9];

d

char foo; unsigned char foo;

e

float\* foo;

f

struct Job foo = malloc(sizeof(Job)); struct Job foo;

q3

SEGFAULT

675360

UNKNOWN

191

3141592

q4

a

7+4\*10 = 47

b

n = 16\*1024 / 8 = 2048 pages/entry

lv3 size = 2048 \* 16 = 32 MiB

n3 = 96 \* 2^10 / 32 = 3072 pages

(1+2+3072)\*16 = 49200 KiB

c

n3\_new = 256\*1024/32 = 8192 pages

(3075 + 1 + 4 + 8192)\*16 = 49200 + 8197\*16 = 180352

(1 + 4 + 8192) \* 16 KiB = 131 152 KiB

d

lv3 size = 2^-5 GiB

n3 \_d = 128\*2^10/ (2^-5) = 2^22 pages

2^11, 1

64GiB

e

n3\_e = 2^10 / 2^5 = 32 pages

(3075 + 34)\*16 = 49744KiB

3018\*16 = 49728KiB

Q5

a

8

b

7

c

17

d

back\*2

abdk\*2

aefghk\*2

aejk\*2

36

q6

a

|  |  |  |  |
| --- | --- | --- | --- |
|  | mask | broadcast | CIDR |
| A | 255.255.255.128 | 43.200.255.127 | 43.200.255.0/25 |
| B | 255.255.255.0 | 43.200.254.255 | 43.200.254.0/24 |
| C | 255.255.248.0 | 43.199.7.255 | 43.199.0.0/21 |
| D | 255.255.255.240 | 10.5.35.47 | 10.5.35.32/28 |

b

43.1100 1000

43.1100 0111

CIDR 43.192.0.0/12

Broadcast 43.207.255.255

Netmask 255.240.0.0

q7

q8