q1

a

ls -a /etc

b

mv /tmp/a4data/\*.spec ~/data

c

mkdir exam

d

gcc -pthread -lm threadcalc.c server.c -o netserver

e

svn commit

f

grep tcp /etc/services

g

grep -v nameserver /etc/resolv.conf

h

grep r=255 ~/colours | grep -v g =255 >> tmp/red

i

grep -c “Mount Cootha” addresses

j

grep -c set /etc/vimrc >> vim/set.count

k

ln -s /local/courses/csse2310/bin/testa3.sh a3test

q2

a

char foo[5];

b

int(\*foo)(void)

void (\*foo)(int);

c

pid\_t foo;

d

float foo = 3.14;

e

int foo[2] = {0, 1}

int foo[2];

f

struct foo (char, int);

Struct {

Char c;

Int i;

} foo; [+1]

q3

SEGFAULT

183840

UNKNOWN

23107231

q4

a

2^13GiB

b

n = 1024pages

size3 = 8MiB

n3 = 1000/8 = 125pages

(1+1+125)\*8 = 1016KiB

c

(1+2+1250)\*8 = 10024KiB

d

9000/8 = 1125pages

1127\*8 + 1016 = 10032KiB

e

num entries \* page size = 125 \* 8KiB

q5

1

a b j

a b h j

a c d e f h j

a c d e f j

a c d g h j

a c d g j

2

5

3

4

4,

17

5,

31

q6

a

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  | 255.255.255.0 | 34.15.160.255 | 34.15.160.0/24 |
|  | 255.255.128.0 | 34.14.255.255 | 34.14.128.0/17 |
|  | 255.255.255.224 | 10.1.1.31 | 10.1.1.0/27 |
|  | 255.255.255.240 | 34.15.177.79 | 34.15.177.64/28 |

b

34.0000 1111

0000 1110

cidr 34.0.0.0/12 34.14.0.0/15

b 34.15.255.255

m 255.240.0.0 255.254.0.0

c

10

q7

a

n = 2^12 pointers

(6+4\*2^12+2\*2^24)\*32 = 1074266304KiB

b

(6+4\*2^12)\*32 = 524480KiB

c

50000/1024/32 = 2

2+1 = 3

4

d

12\*8=96B

q8

a

chmod g-rx exam chmod g-x exam

b

chmod g-r, o+r resources

c

5 4

d

0

e

anyone

q9

a

alice, bob,dave,fred

b

alice,dave,eve

c

bob,dave,fred

d

bob,carol,dave,eve,fred

q10

-12