1.sudo find ./ -name "bin" -exec ls -l {} \;

```
🁚 kivygogh — find ∢ sudo — 80×24
Last login: Thu Nov 23 12:52:22 on ttys000 goudandeMacBook-Pro:~ goudan$ sudo find / -name "bin" -exec ls -l {} \;
Password:
total 134240
-rwxr-xr-x
lrwxr-xr-x
ary/Framewor
                       4 root
                                                                 925 7 16 08:20 2to3-
                                        wheel
                       1 root wheel 74 11 14 01:26 2to3-2.7 -> ../../System/Libr
                                                             755056 10 26 00:37 AssetCacheLocatorUtil
53472 10 26 00:37 AssetCacheManagerUtil
48288 10 26 00:37 AssetCacheTetheratorUtil
18320 10 26 00:37 BuildStrings
18288 10 26 00:37 CpMac
18288 10 26 00:37 DeMac
-rwxr-xr-x
                        1 root
                                         wheel
-rwxr-xr-x
                            root
-rwxr-xr-x
                           root
                                         wheel
-rwxr-xr-x
                           root
                                         wheel
-rwxr-xr-x
                           root
                                         wheel
                                                             18288 10 26 00:37 DeRez
18320 10 26 00:37 GetFileInfo
74032 10 26 00:37 IDAccelMemory
18304 10 26 00:37 MrygePef
18288 10 26 00:37 MryMac
18304 10 26 00:37 ResMerger
18288 10 26 00:37 Rez
18288 10 26 00:37 Rez
18304 10 26 00:37 Rez
18304 10 26 00:37 SetFile
18304 10 26 00:37 SetFile
18304 10 26 00:37 SplitForks
-rwxr-xr-x
                            root
                                         wheel
                           root
                                         wheel
-rwxr-xr-x
                           root
                                         wheel
                                         wheel
-rwxr-xr-x
                           root
                                         wheel
-rwxr-xr-x
                            root
                                         wheel
                           root
                                         wheel
-rwxr-xr-x
                        1 root
1 root
                                         wheel
                                         wheel
-rwxr-xr-x
                           root
                                         wheel
                        1 root
                                                              18304 10 26 00:37 UnRezWack
```

2.find ./ -type f -size +3k

```
IgoudandeMacBook-Pro:~ goudan$ find . -type f -size +3k
./svg/index.html
./svg/.DS_Store
./svg/node_modules/babylon/package.json
./svg/node_modules/babylon/lib/plugins/flow.js
./svg/node_modules/babylon/lib/plugins/flow.js
./svg/node_modules/babylon/lib/plugins/jsx/xhtml.js
./svg/node_modules/babylon/lib/plugins/jsx/index.js
./svg/node_modules/babylon/lib/plugins/jsx/index.js
./svg/node_modules/babylon/lib/tokenizer/types.js
./svg/node_modules/babylon/lib/parser/tindex.js
./svg/node_modules/babylon/lib/parser/lindex.js
./svg/node_modules/babylon/lib/parser/statement.js
./svg/node_modules/babylon/lib/parser/comments.js
./svg/node_modules/babylon/lib/parser/expression.js
./svg/node_modules/jsesc/bin/jsesc
./svg/node_modules/jsesc/jsesc.js
./svg/node_modules/jsesc/linode_modules/chokidar/CHANGELOG.md
./svg/node_modules/postcss-cli/node_modules/chokidar/node_modules/anymatch/node_modules/micromatch/node_modules/extglob/index.js
./svg/node_modules/postcss-cli/node_modules/chokidar/node_modules/anymatch/node_modules/micromatch/node_modules/extglob/README.md
./svg/node_modules/postcss-cli/node_modules/chokidar/node_modules/anymatch/node_modules/micromatch/node_modules/extglob/README.md
./svg/node_modules/postcss-cli/node_modules/chokidar/node_modules/anymatch/node_modules/micromatch/node_modules/chokidar/node_modules/anymatch/node_modules/micromatch/node_modules/chokidar/node_modules/anymatch/node_modules/micromatch/node_modules/chokidar/node_modules/anymatch/node_modules/micromatch/node_modules/chokidar/node_modules/anymatch/node_modules/micromatch/node_modules/chokidar/node_modules/anymatch/node_modules/micromatch/node_modules/chokidar/node_modules/anymatch/node_modules/micromatch/node_modules/chokidar/node_modules/anymatch/node_modules/postcss-cli/node_modules/chokidar/node_modules/anymatch/node_modules/micromatch/node_modules/chokidar/node_modules/anymatch/node_modules/micromatch/node_modules/chokidar/node_modules/anymatch/node_modules/anymatch/node_modules/anymatch/node_modules/anymatch/node_modules/anymatch/node
```

3.find. / -exec o 000 chmod 755 {} \;
4.find ./ -name "*.c" root | xargs wc -l | sort -n >> sorted_statistics.txt
5.find ./ root | wc -l

ex2:

1.Use pthread_create to save threads' id, bind their thread function and send args to threads.

pthread_create(&tid[i], NULL, thread_handler, (void *)&slp);

2.Use pthread_join to waits threads' termination, and receive their return value.

pthread_join(tid[i],(void**)&exc);

3.Use getpid to get pid, use pthread_self to get thread identifier.

printf("process id: %d\tthread id: %lu\n", getpid(),(unsigned long)pthread_self());

```
c ex702.c
6 #define THREAD NUM 1
  8 void * thread_handler(void *arg);
 10 int main(int argc,char *argv[]){
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 31 32 33 34 35 36 36 38 }
          if(argc<2){
               perror("The number of args is wrong!\n");
               exit(0);
         int i,slp;
         slp = atoi(argv[1]);
         pthread_t tid[THREAD_NUM];
         for(i = 0; i < THREAD_NUM; i++){</pre>
               pthread_create(&tid[i], NULL, thread_handler, (void *)&slp);
         for(i = 0; i < THREAD_NUM; i++){</pre>
               pthread_join(tid[i],(void**)&exc);
               printf("thread id:%lu,exit code:%d\n", (unsigned long)tid[i], *exc);
          return 0;
38
39 void *thread_handler(void *arg){
40    int s = *((int*)arg);
41    static int excode;
42    printf("process id: %d\tthread
          printf("process id: %d\tthread id: %lu\n", getpid(),(unsigned long)pthread_self());
          scanf("%d".&excode):
 44
          return (void *)(&excode);
```

ex3:

1.Use a binary tree to store every thread's deep and thread id. Malloc sharing memory to binary tree in main thread.

```
Tree root;
creat_tree(root,n);
root->tid = pthread_self();
```

2.Creat threads and shore datas.

```
root->left->deep=n-1;
pthread_create(&root->left->tid, NULL, thread_handler, root->left);
root->right->deep=n-1;
pthread_create(&root->right->tid, NULL, thread_handler, root->right);
```

3.Generate child threads and shore datas in the binary tree in headler function.