Gcov:

Full backup:

```
└─$ gcov a-client.c
File 'client.c'
Lines executed:21.31% of 244
Creating 'client.c.gcov'

Lines executed:21.31% of 244
```

```
    -:   83:
    -:   84:                //Full backup for ***files***
    -:   85:                //./client1.c -ff dir file1 file2 file3......
    1:   86:                if(strcmp(option,"-ff") == 0){
    -:   87:
    1:   88:                        if(argc<4)
    -:   89:                        {
 ####:   90:                                printf(" Invalid Usage : No file name
entered!!!\n");
 ####:   91:                                printf(" Usage: ./client1.c -ff dir f
ile1 file2 file3......");
 ####:   92:                                exit(1);
    -:   93:                        }
    -:   94:
    3:   95:                        for(int i = 3;i < argc;i++){
    -:   96:
    -:   97:                                int k;
    -:   98:                                char temp[30];
    2:   99:                                strcpy(temp,argv[i]);
    2:  100:                                send(sockfd,temp,sizeof(temp),0);
    2:  101:                                printf("%s\n",temp);
    2:  102:                                strcpy(temp,filename);
    2:  103:                                strcat(temp,argv[i]);
    -:  104:                                //strcpy(filename,temp);
    2:  105:                                printf("%s\n",temp);
    2:  106:                                send_file(temp,sockfd);
    -:  107:
    -:  108:                        }
    -:  109:
    -:  110:                }
```

Incremental Backup

```
┌──(kali㉿kali)-[~/RBU]
└─$ gcov incremental-client.c
File 'client.c'
Lines executed:28.69% of 244
Creating 'client.c.gcov'

Lines executed:28.69% of 244
```

Scheduled Backup

```
┌──(kali㉿kali)-[~/RBU]
└─$ gcc -fprofile-arcs -ftest-coverage -o scheduled client.c

┌──(kali㉿kali)-[~/RBU]
└─$ ./scheduled -sf House/tcp "* * * * *" nile1.txt nile2.txt
Last backup at : Oct 19
[+]Server socket created successfully.
[+]Connected to Server.

* * * * * cd /home/kali/RBU && ./client -ff House/tcp nile1.txt nile2.txt

[+]Closing the connection.

┌──(kali㉿kali)-[~/RBU]
└─$ gcov scheduled-client.c
File 'client.c'
Lines executed:21.31% of 244
Creating 'client.c.gcov'

Lines executed:21.31% of 244
```

Versioned Backup

```
┌──(kali㉿kali)-[~/RBU]
└─$ gcov versioned-client.c
File 'client.c'
Lines executed:22.95% of 244
Creating 'client.c.gcov'

Lines executed:22.95% of 244
```