

一、Arcd

(1)編譯結果

```
sandra@LAPTOP-AD1R60F7:~/assignment_3-op
● en-src-Sandra-Lin/arcd$ gcc -o arcd arcd
_stream.c arcd.c arcd.h adaptive_model.h
adaptive_model.c
arcd.h:1:9: warning: #pragma once in mai
n file
    1 | #pragma once
      | ~~~~~
adaptive_model.h:1:9: warning: #pragma o
nce in main file
    1 | #pragma once
      | ~~~~~
sandra@LAPTOP-AD1R60F7:~/assignment_3-op
○ en-src-Sandra-Lin/arcd$
```

圖一、arcd 編譯結果

(2)執行結果

```
● en-src-Sandra-Lin/arcd$ ./arcd -e <aaa.txt|tee encode
OK x+0-000000L000000#0000LCR0000MjUgaD*D*0000B0000A
/0lSc00000R;0lv0m000j{ZK00000000000S0000(0d0
!00j30
the coding time is 0.000219 sec.
sandra@LAPTOP-AD1R6OF7:~/assignment_3-open-src-Sandra-
Lin/arcd$
```

圖二、decode

```
● en-src-Sandra-Lin/arcd$ ./arcd -e <aaa.txt|tee encode
OK x+0-000000L000000#0000LCR0000mjuGaD*0000P0000X
/0lsc00000R;0lv0m0j{ZK0000000000S0000(0d0
!00j30
the coding time is 0.000219 sec.
sandra@LAPTOP-AD1R6OF7:~/assignment_3-open-src-Sandra-
Lin/arcd$
```

圖三、encode

二、Huffman

(1)編譯結果

```
sandra@LAPTOP-AD1R6OF7:~/assignment_3-open-src-Sandra-Lin/huffman$ make
cc -g -Wall -Werror -Wextra -O0 -std=c11 -D_POSIX_C_SOURCE=2 -c -o huffcode.o huffcode.c
cc -o huffman huffcode.o libhuffman.a
sandra@LAPTOP-AD1R6OF7:~/assignment_3-open-src-Sandra-Lin/huffman$
```

圖四、huffman 編譯結果

(2)執行結果

```
sandra@LAPTOP-AD1R60F7:~/assignment_3-open-src-Sandra-  
Lin/huffman$ ./huffcode -i aaa.txt -o encode -c  
the coding time is 0.000271 sec.  
sandra@LAPTOP-AD1R60F7:~/assignment_3-open-src-Sandra-  
Lin/huffman$
```

圖五、encode

```
Lin/huffman$ ./huffcode -i encode -o decode -d  
the coding time is 0.000087 sec.  
sandra@LAPTOP-AD1R60F7:~/assignment_3-open-src-Sandra-  
Lin/huffman$
```

圖六、decode

三、文字檔

```
Observation of the family from the monster  
Monster want to be accepted  
Safie' s father and the family  
Safie' s appearance  
The monster learning and trying to talk to the family
```

圖七、原文字檔內容