

HW3

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1. Arithmetic code

編譯：

```
henryc@52-0460994-H1:/mnt/c/Users/henry/desktop/College/Junior/DataSturcture/HW3/arc/Test$ gcc -o arc arc.c arc_stream.c adaptive_model.c arc.h adaptive_model.h
```

執行：

```
henryc@52-0460994-H1:/mnt/c/Users/henry/desktop/College/Junior/DataSturcture/HW3/arc/Test$ ./arc -e <test.txt | tee encoding.txt
henryc@52-0460994-H1:/mnt/c/Users/henry/desktop/College/Junior/DataSturcture/HW3/arc/Test$ ./arc -d <encoding.txt | tee decoding.txt
```

2. Huffman code

編譯：

```
henryc@52-0460994-H1:/mnt/c/Users/henry/desktop/College/Junior/DataSturcture/HW3/huffman$ make
cc -g -Wall -Werror -Wextra -O0 -std=c11 -D_POSIX_C_SOURCE=2 -c -o huffcode.o huffcode.c
cc -o huffcode huffcode.o libhuffman.a
```

執行：

```
henryc@52-0460994-H1:/mnt/c/Users/henry/desktop/College/Junior/DataSturcture/HW3/huffman$ ./huffcode -i test.txt -o encode.txt -c
Time taken: 0.001041
henryc@52-0460994-H1:/mnt/c/Users/henry/desktop/College/Junior/DataSturcture/HW3/huffman$ ./huffcode -i encode.txt decode.txt -d
```

