

Assignment_3_result report

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A.Huffman

1. Compile result

```
tingyu@LAPTOP-3KGQATTK:~/assignment_3-tingyuchen/Huffman$ make
cc -g -Wall -Werror -Wextra -O0 -std=c11 -D_POSIX_C_SOURCE=2 -c -o huffcode.o huffcode.c
cc -g -Wall -Werror -Wextra -O0 -std=c11 -D_POSIX_C_SOURCE=2 -c -o huffman.o huffman.c
ar r libhuffman.a huffman.o
ar: creating libhuffman.a
cc -o huffcode huffcode.o libhuffman.a
tingyu@LAPTOP-3KGQATTK:~/assignment_3-tingyuchen/Huffman$
```

2. Execute result

- Archive result

```
tingyu@LAPTOP-3KGQATTK:~/assignment_3-tingyuchen/Huffman$ ./huffcode -c -i test.txt -o textarchive.txt
Compressed/Decompressed time : 1032 µs
tingyu@LAPTOP-3KGQATTK:~/assignment_3-tingyuchen/Huffman$
```

- Decode result

```
Compressed/Decompressed time : 116 µs
tingyu@LAPTOP-3KGQATTK:~/assignment_3-tingyuchen/Huffman$ ./huffcode -d -i textarchive.txt -o textdecode.txt
Compressed/Decompressed time : 837 µs
tingyu@LAPTOP-3KGQATTK:~/assignment_3-tingyuchen/Huffman$
```

B.Arcd

1. Compile result

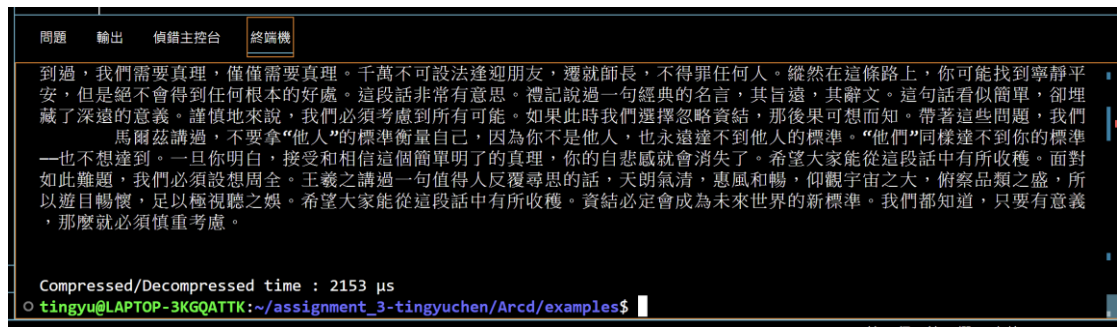
```
tingyu@LAPTOP-3KGQATTK:~/assignment_3-tingyuchen/Arcd$ cmake .
-- Configuring done
-- Generating done
-- Build files have been written to: /home/tingyu/assignment_3-tingyuchen/Arcd
tingyu@LAPTOP-3KGQATTK:~/assignment_3-tingyuchen/Arcd$ make
Scanning dependencies of target arcd
[ 50%] Building C object arcd/CMakeFiles/arc.dir/arc.c.o
[100%] Linking C static library libarc.a
[100%] Built target arcd
tingyu@LAPTOP-3KGQATTK:~/assignment_3-tingyuchen/Arcd$
```

2. Execute result

- Archive result

```
Compressed/Decompressed time : 1207 µs
tingyu@LAPTOP-3KGQATTK:~/assignment_3-tingyuchen/Arcd/examples$
```

- Decode result



The screenshot shows a terminal window with a dark background. At the top, there is a navigation bar with four tabs: "問題" (Problem), "輸出" (Output), "偵錯主控台" (Debug Console), and "終端機" (Terminal). The "終端機" tab is currently selected and highlighted with a yellow border. Below the tabs, the terminal displays a large block of Chinese text. The text discusses the pursuit of truth and the importance of not being swayed by others' standards. It mentions a quote from Ma Ruozhi about not using others' standards to measure oneself. The text concludes by stating that the final result will become a new standard for the future world. Below the text, the terminal shows the command prompt "Compressed/Decompressed time : 2153 μs" and the user's prompt "tingyu@LAPTOP-3KGQATTK:~/assignment_3-tingyuchen/Arcd/examples\$".

```
問題 輸出 偵錯主控台 終端機

到過，我們需要真理，僅僅需要真理。千萬不可設法逢迎朋友，遷就師長，不得罪任何人。縱然在這條路上，你可能找到寧靜平安，但是絕不會得到任何根本的好處。這段話非常有意思。禮記說過一句經典的名言，其旨遠，其辭文。這句話看似簡單，卻埋藏了深遠的意義。謹慎地來說，我們必須考慮到所有可能。如果此時我們選擇忽略資結，那後果可想而知。帶著這些問題，我們馬爾茲講過，不要拿“他人”的標準衡量自己，因為你不是他人，也永遠達不到他人的標準。“他們”同樣達不到你的標準——也不想達到。一旦你明白，接受和相信這個簡單明了的真理，你的自悲感就會消失了。希望大家能從這段話中有所收穫。面對如此難題，我們必須設想周全。王羲之講過一句值得人反覆尋思的話，天朗氣清，惠風和暢，仰觀宇宙之大，俯察品類之盛，所以遊目暢懷，足以極視聽之娛。希望大家能從這段話中有所收穫。資結必定會成為未來世界的新標準。我們都知道，只要有意義，那麼就必須慎重考慮。

Compressed/Decompressed time : 2153 μs
tingyu@LAPTOP-3KGQATTK:~/assignment_3-tingyuchen/Arcd/examples$
```

As the result ,Huffman is faster then arcd.