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程式碼:
# 載入 hash 套件
library(hash)
# 讀取檔案
setwd("D:/TMU/三/DSA")
file_path <- "hw2_data.txt"
words <- readLines(file_path, warn = FALSE)</pre>
# 建立 hash table 來存放單字出現次數
word count <- hash()</pre>
# 統計單字頻率
for (word in words) {
  if (has.key(word, word_count)) {
    word_count[[word]] <- word_count[[word]] + 1
  } else {
    word_count[[word]] <- 1
  }
}
# 計算不重複的英文字數
unique word count <- length(keys(word count))</pre>
# 轉換 hash 為 data frame
word freq <- data.frame(
  word = keys(word count),
  frequency = values(word count),
  stringsAsFactors = FALSE
)
# 依照出現次數排序
word_freq<- word_freq[order(-word_freq$frequency), ]</pre>
# 繪製直方圖
barplot(word freq$frequency, names.arg = word freq$word, las = 2, cex.names = 0.7, col =
"blue".
```

main = "單字出現次數直方圖", xlab = "單字", ylab = "出現次數")

印出結果

cat("不重複的單字總數:", unique_word_count, "\n") print(head(word_freq, 10)) # 顯示前 10 個單字

結果:

- > # 印出結果
- > cat("不重複的單字總數:", unique_word_count, "\n")

不重複的單字總數: 10

> print(head(word_freq, unique_word_count))

	word	trequency
Cheese	Cheese	234
Burger	Burger	196
Coke	Coke	145
Pizza	Pizza	83
Fries	Fries	76
Taco	Taco	57
Steak	Steak	46
Rib	Rib	33
Pho	Pho	19
Potato	Potato	3

單字出現次數直方圖

