

```
#include <stdlib.h>
#include <string.h>
#include <ctype.h>

#define MAXPAROLA 30
#define MAXRIGA 80

int main(int argc, char *argv[])
{
    int freq[MAXPAROLA]; /* vettore di contatori
delle frequenze delle lunghezze delle parole */
    char riga[MAXRIGA];
    int i, inizio, lunghezza;
    FILE *f;

    for(i=0; i<MAXPAROLA; i++)
        freq[i]=0;

    if(argc != 2)
    {
        fprintf(stderr, "ERRORE: serve un parametro con il nome del file\n");
        exit(1);
    }
    f = fopen(argv[1], "r");
    if(f==NULL)
    {
        fprintf(stderr, "ERRORE: impossibile aprire il file %s\n", argv[1]);
        exit(1);
    }

    while( fgets( riga, MAXRIGA, f ) != NULL )
```



Graphs

References

Paolo Camurati and Stefano Quer
Dipartimento di Automatica e Informatica
Politecnico di Torino

References

- ❖ Connected components
 - Sedgewick Part 5 18.5
- ❖ Bridge and articulation points
 - Sedgewick Part 5 18.6
- ❖ DAGs and DAG topological sorting
 - Sedgewick Part 5 19.5 e 19.6
 - Cormen 23.4
- ❖ Strongly connected components
 - Sedgewick Part 5 19.8
 - Cormen 23.5

References

- ❖ Representation
 - Sedgewick Part 5 20.1
- ❖ Principles
 - Sedgewick Part 5 20.2
 - Cormen 24.1
- ❖ Kruskal's Algorithm
 - Sedgewick Part 5 20.4
 - Cormen 24.2
- ❖ Prim's Algorithm
 - Sedgewick Part 5 20.3
 - Cormen 24.2

References

- ❖ General principle
 - Sedgewick Part 5 21.1
 - Cormen 25.1
- ❖ Dijkstra's Algorithm
 - Sedgewick Part 5 21.2
 - Cormen 25.2
- ❖ Minimum and Maximum Paths on DAG
 - Sedgewick Part 5 21.4
 - Cormen 25.4

References

- ❖ **Bellman-Ford's Algorithm**
 - Sedgewick Part 5 21.7
 - Cormen 25.3