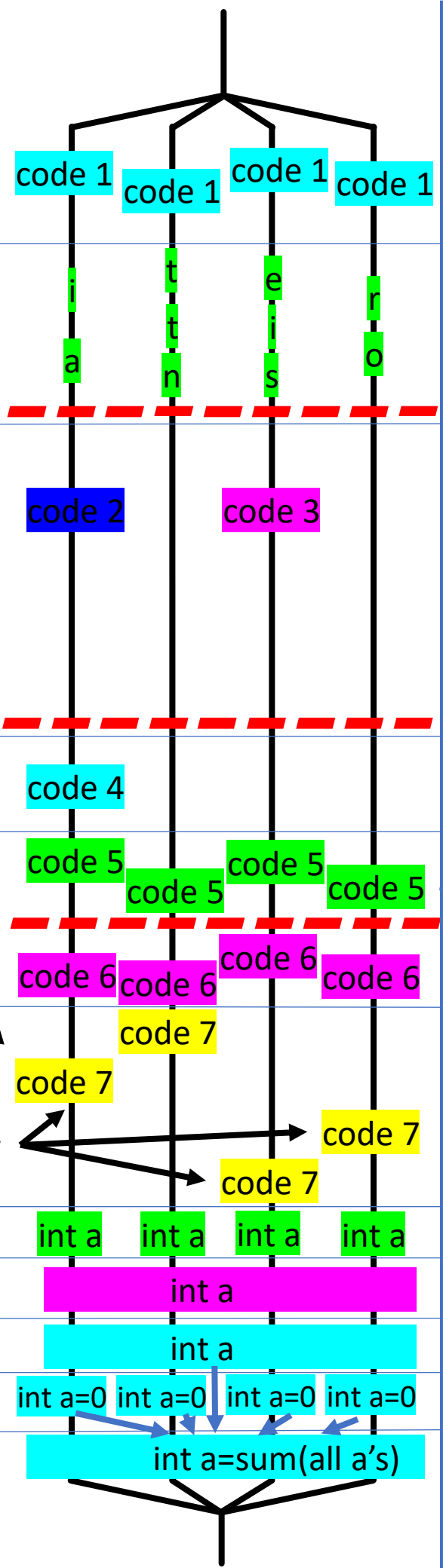
OpenMP Cheat Sheet

Made by Cristian Chilipirea

```
#pragma omp parallel
{
    code 1

    #pragma omp for
    for(...)
        iterations

    #pragma omp sections
    {
        #pragma omp section
        code 2
        #pragma omp section
        code 3
    }

    #pragma omp master
    code 4

    code 5

    #pragma omp barrier
    code 6

    #pragma omp critical
    code 7

    //Can not run simultaneously

    private(a)
    shared(a)

    reduction(+:a)
    {}

}
```



Changing the number of threads:
Function Call: *omp_set_num_threads(2)*
Command line: *export OMP_NUM_THREADS=4*
Pragma directive: *num_threads(8)*

Compiling:
gcc main.c –fopenmp
Number of cores:
cat /proc/cpuinfo

Shorthand (syntactic sugar):
#pragma omp parallel for
#pragma omp parallel sections