

```
int header=1;
void logger(multiReturn mr){

    FILE *file; // points to file
    char filename[40] ="log/log.txt";

    if((file= fopen(filename,"a"))==NULL) //open the file "a" = add content at the end of file
    {
        printf("\nCan't open the file log.txt!\n\n ");
    }else{
        // log params
        fprintf(file, "%d;%d;%d;%d;%d;%d;%f;%s;%d\n", (int)
timestamp, print, method, m, n, p, mr.time, mr.type, numOfProc);
    }
    fclose(file); // close file

    if(header==1){
        printf("\nYou will find the results in /log/log.txt\n");
        // print all important parameters to screen
        printf("\ntimestamp: %d print option: %d method: %d\nm: %d  n: %d  p: %d \n", (int)
timestamp, print, method, m, n, p);
        printf("Number of Processors: %d\n\n", numOfProc);
        header=0; // only once the header is printed
    }
    printf("%s: %f\n", mr.type, mr.time);
}
```