

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

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

    ((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 ");
    }
    {
        // log params
        fprintf(file, "%d;%d;%d;%d;%d;%f;%s;%d\n",timestamp,print,m,n,p,mr.time,mr.type,numOfProc);
    }
    fclose(file); // close file

    (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\nm: %d n: %d p: %d \n",timestamp,print,m,n,p);
        printf("Number of Processors: %d\n\n",numOfProc);
        header=0;// only once the header is printed
    }
    printf("%s: %fs\n",mr.type,mr.time);
}
```