Problem from the following first
$$f(x)$$
 in the following first $f(x)$ is signal and $f(x)$ in the following form $f(x)$ is signal and $f(x)$ in the following form $f(x)$ in the following fo

log (log n) fun (int n) & for (inti=n, i)=2, pow(i,1/2) { some O(1) n(logn) for (Int i=1, iZ=n, i++) { for (int g = 1, g = m)] =] * 2) 2 for som O(1) for (inti=ljium; it+) Tiev. for linty of july jet) for (int k=1; k cm; jett) Som On(1) T(n)= T(n/4)+ T(n/2)+(n2 04 asum T(n/2) >= T(n/4) 7(n)= 27(n/2)+cn2 c = log, a $C = \log_2 2 = 1$ nc cf(n) T(=0(n2)

$$\frac{1}{2} \quad \frac{m}{n} = \frac{1}{2} \int_{0}^{\infty} \frac{1}{2}$$

ar 100 $\angle \log(\log n) \angle \log n \angle \ln 2 n \log n = \log(n!)$ $\angle n^2 \angle 2n \angle 2^{2n} \angle 4^n \angle n!$

- (b) $1 \le \log \log(n) \le \sqrt{\log n} \le \log(n) \le 2n \le 4n \le 2(2^n)$ $\le \log(2n) \le 2\log(n) \le n \le n\log n : \log(n!) \le m!$
- (C) 96 C logz(n) = logs(n) L mlogs(n): nlogz(nx Bn 28n 267n=