2 9010

$$\frac{1}{2} \left(\frac{1.6a}{\kappa_{21}} \right) = \frac{1.6a}{\kappa_{21}} \left(\frac{1.6a}{\kappa_{21}} \right)$$

where k is number of iferation.

$$20(n^{1.54}) \underset{k \in I}{\overset{n-1}{\leq}} k^{1.54}$$

$$20(n^{1.54}) 0(n^{2.54})$$

$$20(n^{1.54}) 0(n^{2.54})$$

3.) dunde the n bits stoing into two groups.

step 1: write formula

$$Bk(n_1n) = Bk(n_2,n) + B_k(n_2,n) + O(n_2.n)^{1.59}$$

$$G(n) = 2G(n_2) + O(\frac{n_2}{2})^{1.69}$$

Step 2: guess Gam =
$$O(n^{2\kappa l \cdot \epsilon u})$$

that is $T_u(n) \leq C \cdot n^{2\kappa l \cdot \epsilon u}$ for all
 n_i for all $Some$ (70

Stup 3.

$$I \cdot W + i = n_1 + o(i) = c \cdot i^{2 \cdot 1 \cdot 8q}$$

$$(n(n) = 2(\lfloor n/2 \rfloor^{2})^{2 \times 1 \cdot 8q} + o(n\gamma_n)^{1 \cdot 8q}$$

$$= 2(\lfloor n/2 \rfloor^{2 \times 1 \cdot 8q})^{2 \times 1 \cdot 8q}$$

$$= O(\gamma_2)^{2 \times 1 \cdot 8q}$$

and the second constant and the Analysis