

for late key, k is positively that taken of (2) the 1/2 hours is 3 times

$$= \sum_{i=1}^{n} \Theta(i) + \sum_{i=1}^{3} \Theta(i^3)$$

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$$= \Theta(n) + \sum_{i=1}^{n} \Theta(i^3)$$

$$= \Theta(n) + (\sqrt{n})^3 \sum_{i=1}^{n} k^3$$

$$= \Theta(n) + (\sqrt{n})^3 \Theta(\sqrt{n})^4$$

$$= \Theta(n) + \Theta(\sqrt{n})^4$$

$$= \Theta(n)^{-1/2}$$

' runs n times

if((i % (int)sqrt(n)) == 0){

for(int k=0; k < pow(i,3); k++) {

