Q3. i=2 while (izn) the "if" triggers for 1= 3,6,9 (=KTN) 1=4,8,12,16 $T(n) = \sum_{i=1}^{N} O(i) + \sum_{i=1}^{N} \sum_{j=0}^{N} O(j)$ $= O(n) + \sum_{i=1}^{N} O(i^{3})$ geometric = O(n) + \(\int \text{O((\ksin)')}\) ¿ (O(n)+ 2 (O (log(n)) $\leq (O(n) + \leq (O(\log(n)))$ (O(n) + O(n log(n)) $O(n^2) + O(n^2 \log(n))$ $O(n^2 \log(n) > O(n^2)$ $= O(n^2 \log(n))$

d. $\leq (O(1) + \leq O(1))$ best worst case runs twice = O(n) + Q (2n·size) = OCn+Size) 감