them checked to be equal to 121,2,3,... only once. Thus, on each iteration of the outer 100p, A[k]==i 15 true for the number of i-values in the array (cet's call this h;). Since I never repeat, (i is unique for each iteration), then n, tnz + ... th, & h where n is the total elements in A

$$T(n) = \Theta(n^{2}) + \Theta(n\log n) = \Theta(n^{2})$$

$$U(n) = \Theta(n) + \Theta(\sum_{i=0}^{n-1} \sum_{j=0}^{n-1} \Theta(j)) + \sum_{i=0}^{n-1} \Theta(i) + \sum_{i=0}^{n-1} \Theta(i)$$

$$Size = i \text{ fin the internal for loop}$$

$$\frac{K[0] + \frac{1}{2} \frac{1}{2} \frac{3}{2} \frac{1}{2} \frac{1}{$$