```
280 | //Finding the kth smallest number in a range
281 //the index of range should be the same with index or roots
282 int find(int i , int j , int k){
283
              return find(k , roots[i] , roots[j+1] , 0 , n-1);
284
    }
285
     int find(int k , Vertex *p1 , Vertex *p2 , int l , int r){
286
287
          // check not found case
288
          if(p2 \rightarrow sum - p1 \rightarrow sum < k) return inf;
289
290
          // return the answer
291
          if(l=r) return l;
292
          // check the condition and go left or right
293
294
          int count = p2 \rightarrow l \rightarrow sum - p1 \rightarrow l \rightarrow sum;
295
          if(k \leq count)
296
              find(k , p1\rightarrowl , p2\rightarrowl , left);
297
          else
298
              find(k - count , p1\rightarrowr , p2\rightarrowr , right);
299 }
```