

사탕 상자

<https://www.acmicpc.net/problem/2243>

- 세그먼트 트리를 이용하여 K번째 수를 구하여 해결한다.

```
void update(vi& tree, int node, int start, int end, int i, int diff) {
    if (i < start || i > end) return;
    tree[node] += diff;
    if (start != end) {
        update(tree, 2 * node, start, (start + end) / 2, i, diff);
        update(tree, 2 * node + 1, (start + end) / 2 + 1, end, i, diff);
    }
}

int kth(vi& tree, int node, int start, int end, int k) {
    if (start == end) {
        return start;
    }
    else {
        if (k <= tree[2 * node]) {
            return kth(tree, 2 * node, start, (start + end) / 2, k);
        }
        else {
            return kth(tree, 2 * node + 1, (start + end) / 2 + 1, end, k - tree[2*node]);
        }
    }
}
```

