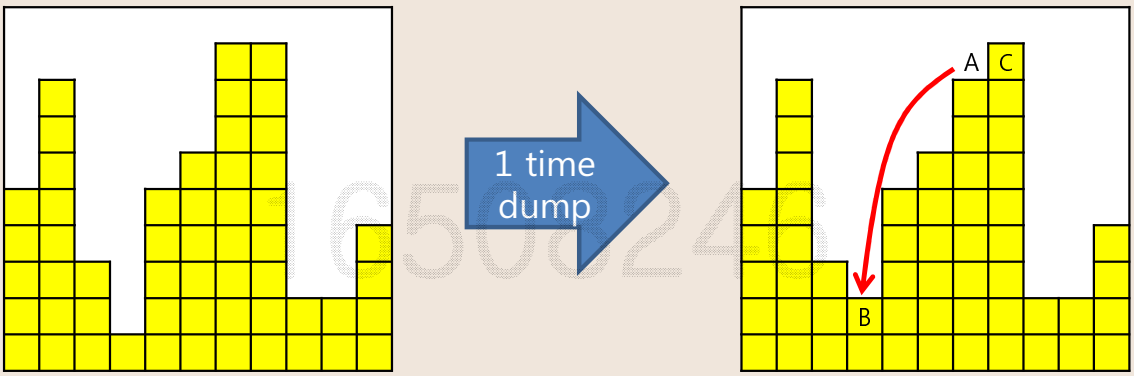
Practice 2 (Flatten)

Sample Question from previous Qualifying Examination

Question

- After conducting planarization (dump) for as many times as its limited number of times, realize the function which returns the difference between the highest point and the lowest point.
- Moving a box from the highest position to the lowest position is defined as 'dump'.
- In the example below, Box A moved to B after a dump. (It is okay to move Box C instead of Box A)



Input value

```
int data[100]; // State of boxes stacked is expressed numerically.
                100 numbers are entered.
               // Example {5,8,3,1,5,6,9,9,2,2,4}
               // The highest point is 9 (it doesn't matter
                  which one you choose from the two 9s.)
               // The lowest point is 1 (if there are more
                  than 2 lowest points, choose randomly)
               // The box height is 1~100
int dumpCount; // Number of planarization(dump) times. Dump
                  frequency is 1~1000
```

Output value

- The height difference between the highest point and the lowest point after conducting dumps as many times as the number of limited dump times,