Question: <https://leetcode.com/problems/maximum-area-of-a-piece-of-cake-after-horizontal-and-vertical-cuts/>

The approach is quite simple, sort horizontal and vertical cut arrays then find max horizontal length by cut and similarly max vertical length by cut.

Then res=(maxHorizontalCut\*maxVerticalCut)%1000000007.

Code:  
class Solution {

public int maxArea(int h, int w, int[] horizontalCuts, int[] verticalCuts) {

Arrays.sort(horizontalCuts);

Arrays.sort(verticalCuts);

int hLength = horizontalCuts.length;

int vLength = verticalCuts.length;

int maxHeight = Math.max(horizontalCuts[0]-0, h - horizontalCuts[hLength-1]);

for (int i = 1;i<hLength; i++){

maxHeight = Math.max(maxHeight, horizontalCuts[i] - horizontalCuts[i-1]);

}

int maxWidth = Math.max(verticalCuts[0]-0, w - verticalCuts[vLength-1]);

for (int i = 1;i<vLength; i++){

maxWidth = Math.max(maxWidth, verticalCuts[i] - verticalCuts[i-1]);

}

return (int) ((1L \* maxHeight \* maxWidth) % 1000000007);

}

}

Github Link :<https://lnkd.in/ecwtJeaz>