1.4.6 o) int sum = 0; for (int k=n; n70; k/=2) for (int i=0; ixk; u++) sum++; n= 10 n=11 if n= 4 84715 2N-1 Worst case is 2n-1 As n->0, becomes 2n n=8 n=9 n=7 n=6 n=5 b) n=4 1 7 2/7 1/7 12/2/7 1277 15 2n-3 M+2 n+1 n=10 Worst case: 2n-1 Best Case: n-1 2N-5

inner xoute	1 1 2	n= 21 1 2 (n-2)n	n=5 124(n-2)n

The first time it should go in the middle of the building. If the egg breaks, it can go in the middle of the building. If the egg breaks, it can check in the layer portion of the egg doesn't break, it can check in the middle of the upper portion. This approach continues until the point at which it finds when the egg breaks.

As, n gets larger, the first guess can start lower and use the above approach.

If there is a value at id[x] equal to id[x] when x>p, then id[p] will update to id[q] and id[x] will no longer equal id[p] when i = x.

Use a linear search that removes elements that have

yes, an array that is sorted in decreasing order is a max oriented heap,

MYSTQNFASIOF

