534575-2-6KE AID:258164 | 16/07/2020

The customer lookup price of its given its item number it uses sorted array. Because items are stored in database randomly manner . And when we look at price it is sorted ,mean it should be in proper manner.

Search the item X in the array using min number of comparisons and This can be proved through node representation :

Before fetch: After fetch:

 

Here we see that fetching price its reference is swapped with reference above it. It can be search with average speed O(log2n).