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(4) Huffman coding is done with the help of following coding.

(1) Calculate the freq of each character in the string.

| 1 | 6 | 5 | 3 |
|---|---|---|---|
| B | C | A | D |

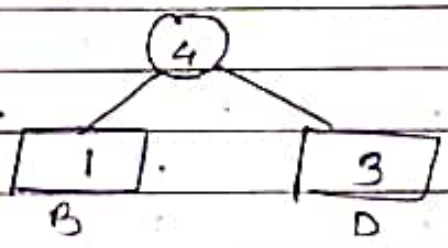
(2) Sort the character in increasing order of the freq in priority queue

| 1 | 3 | 5 | 6 |
|---|---|---|---|
| B | D | A | C |

(3) Make each unique character as a leaf node

(4) Create an empty node z. Assign the minimum freq to the left child of z & second minimum freq to right child of z. Set the value of z as the sum of the above two minimum freq.

| 4 | 5 | 6 |
|---|---|---|
| * | A | C |

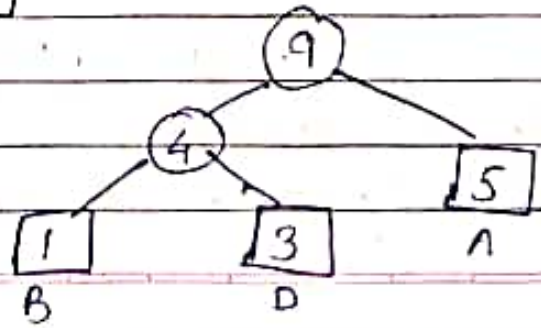



(5) Remove these two minimum freq from Q & add the sum into the list of freq

(6) Insert node z into the tree.

(7) Repeat steps 3 to 5 for all the character

| 6 | 9 |
|---|---|
| C | * |



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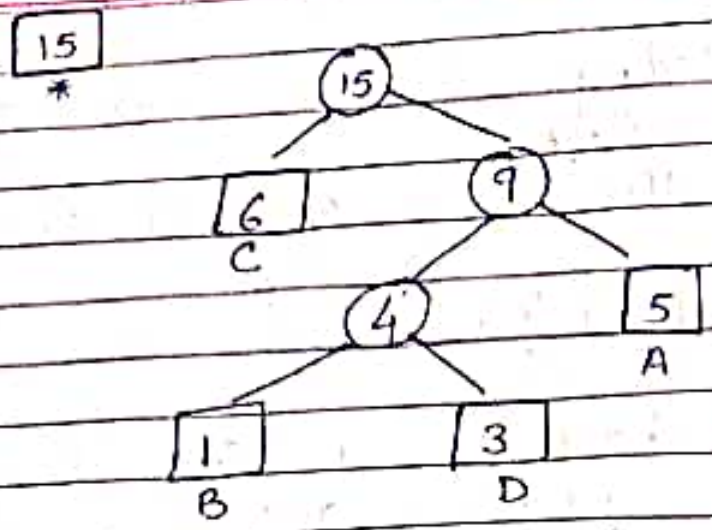


(8) for each non-leaf node, assign 0 to the left edge & 1 to the right edge.