

OUTPUT

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

```
PS C:\Users\HP> cd "c:\Users\HP\Desktop\c c++\" ; if ($?) { g++ huff.cpp -o huff } ; if ($?) { .\huff }
f: 0
c: 100
d: 101
a: 1100
b: 1101
e: 111
PS C:\Users\HP\Desktop\c c++> 
```

TIME COMPLEXITY

$O(n \log n)$ where n is the number of unique characters. If there are n nodes, `extractMin()` is called $2*(n - 1)$ times. `extractMin()` takes $O(\log n)$ time as it calls `minHeapify()`. So, overall complexity is $O(n \log n)$.

REFERENCES:

1. huffman coding | greedy algo-3 – geeksforgeeks
2. 3.4 Huffman Coding - Greedy Method - Bing video
3. Implementing Huffman Coding in C | Programming Logic
4. Adaptive Huffman coding - Wikipedia