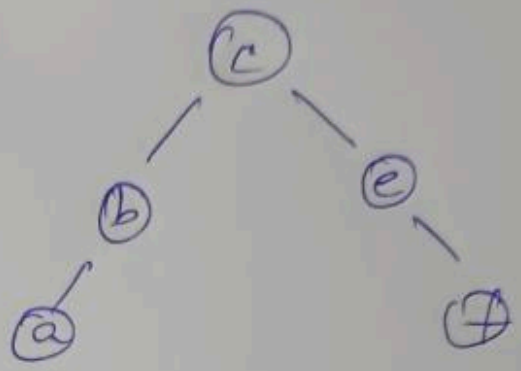
basic operation of GPIO in an
GPIO (General Purpose
that

Illustration:

P = [a, b, c, d, e]

F = [b, d, e, f, g]



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27 Password Matching:

n password protected files with unique pwds.
F[i] → files P[i] → pwd.

Logic:

* To solve this problem, we could use a binary search tree. We would build this binary search tree according to the constraint by matching the ~~first~~ file and its password.
* We would iterate through the list of ~~nodes~~ passwords and test them one by one. Upon recieving feedback (smaller or greater), we would manage the BST
* For each node, it will contain a password and a flag indicating whether it is matched.

Algorithm:

* Password matching [F, P]:

1) Insert_BST(File array).
2) Initialize ptr = root
3) for i in range(0, length of P):
   3.1) While ptr ≠ Null:
      3.1.1) If ptr.password == P[i]:
         - Print (Unlocked)
         - Mark as flagged
         - Delete (ptr). # to reduce complexity.
      3.1.2) If ptr.password > P[i]: # lexicography
         - ptr = ptr.left
      3.1.3) Else, ~~ptr.right = p~~
         ptr = ptr.right